

305-CD-018-001

## **EOSDIS Core System Project**

# **Release A Data Dictionary for Subsystem Design Specification for the ECS Project**

July 1995

Hughes Information Technology Corporation  
Landover, MD

# **Release A Data Dictionary for Subsystem Design Specification for the ECS Project**

**July 1995**

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## **SUBMITTED BY**

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# Preface

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This document is one of sixteen comprising the detailed design specifications of the SDPS and CSMS subsystem for Release A of the ECS project. A complete list of the design specification documents is given below. Of particular interest are documents number 305-CD-004, which provides an overview of the subsystems and 305-CD-018, the Data Dictionary, for those reviewing the object models in detail. A Release A SDPS and CSMS CDR Review Guide (510-TP-002) is also available.

The SDPS and CSMS subsystem design specification documents for Release A of the ECS Project include:

305-CD-004	Release A Overview of the SDPS and CSMS Segment System Design Specification
305-CD-005	Release A SDPS Client Subsystem Design Specification
305-CD-006	Release A SDPS Interoperability Subsystem Design Specification
305-CD-007	Release A SDPS Data Management Subsystem Design Specification
305-CD-008	Release A SDPS Data Server Subsystem Design Specification
305-CD-009	Release A SDPS Ingest Subsystem Design Specification
305-CD-010	Release A SDPS Planning Subsystem Design Specification
305-CD-011	Release A SDPS Data Processing Subsystem Design Specification
305-CD-012	Release A CSMS Segment Communications Subsystem Design Specification
305-CD-013	Release A CSMS Segment Systems Management Subsystem Design Specification
305-CD-014	Release A GSFC Distributed Active Archive Center Implementation
305-CD-015	Release A LaRC Distributed Active Archive Center Implementation
305-CD-016	Release A MSFC Distributed Active Archive Center Implementation
305-CD-017	Release A EROS Data Center Distributed Active Archive Center Implementation
305-CD-018	Release A Data Dictionary for Subsystem Design Specification
305-CD-019	Release A System Monitoring and Coordination Center Implementation

This document is a contract deliverable with an approval code 2. As such, it does not require formal Government approval, however, the Government reserves the right to request changes within 45 days of the initial submittal. Once approved, contractor changes to this document are handled in accordance with Class I and Class II change control requirements described in the EOS Configuration Management Plan, and changes to this document shall be made by document change notice (DCN) or by complete revision.

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# Abstract

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This Data Dictionary for Subsystem Design contains the object classes, attributes and their associated descriptions for the subsystems included in the Release A Critical Design Review. Section 2.2 of this document contains the names of the included subsystems.

***Keywords:***

Data Dictionary, object class, attribute, subsystem, design data.

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# **1. Introduction**

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## **1.1 Identification**

This Release A Data Dictionary for Subsystem Design Specification for the ECS Project, Contract Data Requirement List (CDRL) Item 046, with requirements specified in Data Item Description (DID) 305/DV10, is a required deliverable under the Earth Observing System Data and Information System (EOSDIS) Core System (ECS), Contract NAS5-60000. This publication is part of a series of documents comprising the Science and Communications Development Office design specification for the Communications and System Management Segment (CSMS) and the Science and Data Processing Subsystem (SDPS) for Release A.

## **1.2 Scope**

This document reflects the June 21, 1995 Technical Baseline maintained by the contractor configuration control board in accordance with ECS Technical Direction No.11, dated December 6, 1994.

## **1.3 Purpose**

The Release A Data Dictionary for Subsystem Design Specification defines the progress of the design. It defines the Object classes and attributes for all subsystems referenced in section 2.2.

## **1.4 Status and Schedule**

This submittal of DID 305/DV10 meets the milestone specified in the Contract Data Requirements List (CDRL) of NASA Contract NAS5-60000. A previous version of this submittal was reviewed during the CSMS Preliminary Design Review (PDR) and reflects changes to the design which resulted from that review. The PDR also triggered a number of follow up actions in response to Review Item Discrepancies (RID) the results of which have been incorporated into this Critical Design Review (CDR) version of this document.

## **1.5 Organization**

The document is organized to describe the Release A Data Dictionary for Subsystem Design as follows:

Section 1 provides information regarding the identification, scope, status, and organization of this document.

Section 2 provides a listing of the related documents, which were used as source information for this document.

Section 3 provides the data dictionary for the subsystem design by object classes and attributes.

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## 2. Related Documents

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### 2.1 Parent Documents

The parent document is the document from which the scope and content of this Data Dictionary for Subsystem Design Specification's scope is derived.

194-207-SE1-001          System Design Specification for the ECS Project

### 2.2 Applicable Documents

The following documents are referenced within this document name or abbreviated document name here, or are directly applicable, or contain policies or other directive matters that are binding upon the content of this volume.

305-CD-002-002	Science Data Processing Segment (SDPS) Design Specification for the ECS Project
305-CD-003-002	Communications and System Management (CSMS) Design Specification for the ECS Project, Preliminary
305-CD-005-001	Release A SDPS Client Subsystem Design Specification for the ECS Project
305-CD-006-001	Release A SDPS Interoperability Subsystem Design Specification for the ECS Project
305-CD-007-001	Release A SDPS Data Management Subsystem Design Specification for the ECS Project
305-CD-008-001	Release A SDPS Data Server Subsystem Design Specification for the ECS Project
305-CD-009-001	Release A SDPS Ingest Subsystem Design Specification for the ECS Project
305-CD-010-001	Release A SDPS Planning Subsystem Design Specification for the ECS Project
305-CD-011-001	Release A SDPS Data Processing Subsystem Design Specification for the ECS Project
305-CD-012-001	Release A CSMS Segment Communications Subsystem Design Specification for the ECS Project
305-CD-013-001	Release A CSMS Segment Systems Management Subsystem Design Specification for the ECS Project
305-CD-003-002	Communications and System Management Segment (CSMS) Design Specification for the ECS Project
308-CD-001-004	Software Development Plan for the ECS Project

## 2.3 Information Documents Not Referenced

The following documents, although not referenced herein and/or not directly applicable, do amplify and clarify the information presented in this document. These documents are not binding on the content of the document name or abbreviated document name here.

194-703-PP1-001	System Design Review (SDR) Presentation Package for the ECS Project
194-813-SI4-002	Planning and Scheduling Prototype Results Report for the ECS Project
194-WP-914-001	CORBA Object Request Broker Survey for the ECS Project, White Paper, Working Paper
194-TP-266-002	Data Distribution Architecture Logical Object Model (LOM) for the ECS Project, Version 2.01
194-TP-267-001	Data Server Architecture Logical Object Model (LOM) for the ECS Project, Version 2.00
440-TP-001-001	Science Data Server Architecture Study [for the ECS Project]
540-022	Goddard Space Flight Center, Earth Observing System (EOS) Communications (Ecom) System Design Specification

## 3. Data Dictionary

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### 3.1 Object Classes

**Entity Name:** AccessProfile

Category: Object Class

This class provides the capability to maintain permissions that authorize individuals and groups to perform specific library operations.

**Entity Name:** acl\_edit

Category: Object Class

This is a GUI utility that is used to create and maintain access control lists (acls).

**Entity Name:** Algorithm

Category: Object Class

This class is a specialization of the ResourceProfile class. It provides a capability to identify and characterize operational algorithms.

**Entity Name:** app\_1\_0\_ABS

Category: Object Class

This is the application Abstract class generated by the application IDL.

**Entity Name:** appClientObj

Category: Object Class

This is an application client/proxy object.

**Entity Name:** appServerObj

Category: Object Class

This is an application server object.



**Entity Name:** Association

Category: Object Class

This class provides the capability to tag related library files in order to facilitate group operations.

**Entity Name:** Attachment

Category: Object Class

This class provides a capability to maintain lists of files that contain support information associated with specific change requests.

**Entity Name:** BaselineChange

Category: Object Class

This class provides a capability to compare two system baselines and identify what system resources changed.

**Entity Name:** BaselineManagementReport

Category: Object Class

This class provides the capability to retrieve and format historical system configuration details for display, storing, or printout.

**Entity Name:** BaselineManager

Category: Object Class

This class is a service manager that controls configuration profiles of deployed system resources and the hierarchical organizations of resources constituting operational system baselines.

**Entity Name:** BaselineProfile

Category: Object Class

This class provides a capability to uniquely identify system baselines and the versions of deployed resources that comprise each baseline.

**Entity Name:** BuildRecord

Category: Object Class

This class provides the capability to audit and record the files, tools, text and options used in constructing a build.

**Entity Name:** ChangeRequestManager

Category: Object Class

This class is a service manager that controls change request data and manages operator-initiated actions associated with it.

**Entity Name:** CI

Category: Object Class

This class is a specialization of the ResourceProfile class. It provides a capability to identify ECS Configuration Items to which deployed hardware and software belong.

**Entity Name:** CIDtActions

Category: Object Class

An Action is an Event to be performed by the Desktop on user's or system's request. For example; OpenApplication, CloseApplication, DragIcon, CopyObject, OpenNewWindow and RefreshScreen etc. This Class contains implementations of all actions supported by Desktop objects. The set of Actions to be supported by a Desktop object will be based on its type.

**Entity Name:** CIDtApplicationObject

Category: Object Class

Application object is a type of desktop object. It provides default behaviour for objects which represent executable programs.

**Entity Name:** CIDtContainerObject

Category: Object Class

A type of Desktop Object which is capable of holding other desktop objects (containers, applications, and documents). Since containers can contain other container objects, they can be used to implement hierarchical structures. Actions associated with this object are display contents, move into container, remove from container etc.

**Entity Name:** CIDtDesktop\_Object

Category: Object Class

Desktop object can be a container object, Application object or a document object. Each object will have zero or more related actions. Each desktop object will have an icon associated with it. A desktop object will be displayed using this icon.

**Entity Name:** CIDtDesktopWindow

Category: Object Class

The Desktop Window can be either in hierarchical format or iconic format. Desktop Window contains zero or more desktop objects. Desktop Window itself is a Desktop Object i.e., a container object.

**Entity Name:** CIDtDocumentObject

Category: Object Class

A type of Desktop object which provides a mechanism for associating multiple types of descriptive data with an object. Applications can be associated with a class of desktop document objects, and this application can be invoked to access the data described in the document object.

**Entity Name:** CIDtHierarchical

Category: Object Class

Displays desktop objects in hierarchical format.

**Entity Name:** CIDtIconic

Category: Object Class

Displays Desktop objects in Iconic form.

**Entity Name:** CmBmCotsLog

Category: Object Class

This class provides the capability to maintain a record of error and library modification events.

**Entity Name:** CmCrmCotsLog

Category: Object Class

This class provides the capability to maintain a record of error and library modification events.

**Entity Name:** CmScmCotsLog

Category: Object Class

This class provides the capability to maintain a record of error and library modification events.

**Entity Name:** ComplianceTest

Category: Object Class

This class represents a security test that checks for the compliance to established security policy. These tests are implemented through public domain products crack, COPS and SATAN. Crack checks for the adherence to established policy for passwords by attempting to guess passwords. COPS and SATAN generate analysis of the security mechanisms of specified hosts. Since these represent COTS products, these will not be described in detail here. The reader is referred to the appropriate COTS documentation.

**Entity Name:** ConfiguredDevice

Category: Object Class

This class is a specialization of the ResourceProfile class. It provides a capability to identify and characterize individual, deployed configured devices, and it identifies the hardware and software items to comprise each.

**Entity Name:** COTS

Category: Object Class

**Entity Name:** CsBBMailRelA

Category: Object Class

Used to post messages to bulletin boards.

**Entity Name:** CsEmMailRelA

Category: Object Class  
Used to send email to recipients.

**Entity Name:** CsFtFTPRelA

Category: Object Class  
This object allows files to be sent and received through an external FTP client.

**Entity Name:** CsGateWay

Category: Object Class  
The Gateway translates TCP/IP socket call to the corresponding RPC function.

**Entity Name:** DCEACL\_EDIT

Category: Object Class  
This class represents the ACL\_EDIT utility provided by DCE for the purpose of managing ACLs associated with DCE servers. Since this is a COTS product (DCE), it will not be described in detail here. The reader is referred to the DCE documentation set for details.

**Entity Name:** DCEAclMgr

Category: Object Class  
This class registers a 'rdac1' interface manager object with the global DCEServer object.

**Entity Name:** DCEAclSchema

Category: Object Class  
This class defines the permission bits that are available and provides a printable form of each bit and an explanatory string.

**Entity Name:** DCEActivation

Category: Object Class  
This abstract class is used by server developers to provide an interface onto the activation of server manager objects. Since the activation of these objects is application specific, many implementations will exist. An activation object can be registered with a Server object and be used to dynamically activate manager objects.

**Entity Name:** DCEInterface

Category: Object Class

The application client class inherits from the DCEInterface class which provides the default functionality required at the client side. It includes locating a service, binding and accessing the remote objects managed by that server. Client class inherits from this DCEInterface class and as such this interface is embedded in the client class. The application programmer can modify the default behavior provided by the DCEInterface class to achieve any needed special behavior.

**Entity Name:** DCEInterfaceMgr

Category: Object Class

There can be multiple implementations for a given interface. The application server implementation class inherits from the InterfaceMgr class and the DCEObj class. The DCEInterfaceMgr class is the base abstract class from which all generated server side classes are derived. This class allows the application programmer to define and attach a RefMon class where the desired level of security (authentication) can be specified. The DCEObj class provides the concept of the Generic object which can have multiple interfaces. This class provides the functionality to associate a RefMon object to all the interfaces that it is associated to. Server implementation class inherits from these classes and as such their interfaces are embedded in the server class. The application programmer can modify the default behavior provided by these classes to achieve any needed special behavior.

**Entity Name:** DCEObj

Category: Object Class

This class provides the concept of DCE object which is a logical entity and can have multiple interfaces. This class is used to collect related interfaces together to form a DCE object. Object of this class can be registered with a Server object.

**Entity Name:** DCEPassword

Category: Object Class

This class supports implementation of password storage and access.

**Entity Name:** DCERefMon

Category: Object Class

This class provides an abstraction of a reference monitor that controls the client object's access to a manager object.

**Entity Name:** DCERGY\_EDIT

Category: Object Class

This class represents the DCE utility RGY\_EDIT used for the management of DCE principals in the DCE Registry database (authentication database). Since this is a COTS product, it will not be described in detail here. The reader is referred to the DCE documentation set for details.

**Entity Name:** DCESecId

Category: Object Class

This utility class encapsulates the sec\_id\_t data type of DCE.

**Entity Name:** DCEUuid

Category: Object Class

This utility class encapsulates the DCE data type uuid\_t. It provides a flexible way of dealing with the various forms of representing a UUID.

**Entity Name:** Directory\_Naming\_Service

Category: Object Class

Directory Naming is an infrastructure key mechanism and is used by ECS subsystems who need to use a Cell Directory namespace as a database to enter or retrieve information stored in the form of attribute-value pairs.

**Entity Name:** DmGwAcquireRequest

Category: Object Class

This class contains all the information and the operations required to submit a product ordering request to the data server.

**Entity Name:** DmGwBoundingCoordinates

Category: Object Class

This class is a part class of DmGwDataCollection. It contains the bounding coordinates of the spatial coverage of the data collection.

**Entity Name:** DmGwBrowseRequest

Category: Object Class

This class contains all the information and the operations required to submit a browse request to the data server.

**Entity Name:** DmGwDataCollection

Category: Object Class

This class stores the metadata about the data collection stored in the data server associated with V0 gateway. The information in this class and its part classes is used to resolve a V0 directory query and to build the V0 valids file.

**Entity Name:** DmGwDataCollectionMap

Category: Object Class

This class stores the mappings, if any, between the dataset names of V0 clients and ECS data server.

**Entity Name:** DmGwDirectoryRequest

Category: Object Class

The DmGwDirectoryRequest class is a specialization of the DmGwV0Request class. This class is responsible for processing a V0 Directory Search request.

**Entity Name:** DmGwDistribution

Category: Object Class

This class contains all the information and the operations required to acquire product distribution and format information.

**Entity Name:** DmGwFieldCampaign

Category: Object Class

This is a part class of DmGwDataCollection. A data collection may be collected using a campaign which is contained in this class. It is used in resolving the directory search from V0 client and validating the inventory search from V0 client.



**Entity Name:** DmGwFieldCampaignMap

Category: Object Class

This class stores the mapping between V0 field campaign names and the ECS field campaign names.

**Entity Name:** DmGwGateWayCollector

Category: Object Class

This class contains all the information and the operations required to retrieve a collection of valids exported from the data server.

**Entity Name:** DmGwGateWayDescriptor

Category: Object Class

This class contains the valid information which is returned by the data server after the valid export request is completed.

**Entity Name:** DmGwGeophysicalParameter

Category: Object Class

This is a part class of DmGwDataCollection. It contains the geophysical parameter names that the data collection references.

**Entity Name:** DmGwGeophysicalParameterMap

Category: Object Class

This class stores the mappings between V0 geophysical parameters and ECS geophysical parameters. A single V0 parameter may map to many ECS parameters and vice versa.

**Entity Name:** DmGwGranuleIdURMap

Category: Object Class

This class stores the UR and the granule id of every result granule of an inventory search. This mapping is maintained in the V0 gateway database so that any further requests from the V0 client using the granule id can be translated into UR before requesting the data server. These results are stored for certain period of time and then purged out.

**Entity Name:** DmGwInvESDTReference

Category: Object Class

This class contains the information of granule references returned from an inventory search request for a particular dataset.

**Entity Name:** DmGwInvQuery

Category: Object Class

This class contains the information of the query criteria for the data set requested.

**Entity Name:** DmGwInvRequests

Category: Object Class

The DmGwInvRequest class is a specialization of the DmGwV0Request class. This class is responsible for processing a V0 Inventory Search Request.

**Entity Name:** DmGwInvSearchRequest

Category: Object Class

This class contains all the information and the operations required to submit an inventory search request to the data server.

**Entity Name:** DmGwLocalityNameMap

Category: Object Class

This class stores mapping from V0 locality names (which are mapped to DATASET\_COVERAGE, SPATIAL) to ECS locality names.

**Entity Name:** DmGwMap

Category: Object Class

This class provides the mappings between the V0 terms and the ECS terms. V0 valids such as geophysical parameters, sensors, platforms may have different terminology in ECS for which the mappings are stored using this class. This is an abstract class where term can be of several types and they appear as subclasses of this class.

**Entity Name:** DmGwMediaInfo

Category: Object Class

This class contains all the information and the operations required for acquiring distribution media format.

**Entity Name:** DmGwPlatformMap

Category: Object Class

This class stores the mappings between V0 platforms and the ECS platforms.

**Entity Name:** DmGwProductRequest

Category: Object Class

The DmGwProductRequestClass is a specialization of the DmGwV0Request class. This class is responsible for processing a V0 Product Request (i.e. data order request).

**Entity Name:** DmGwRequestList

Category: Object Class

The DmGwRequestList class is a container object that maintains the list of currently active V0 Requests. Each V0 Request is represented by a DmGwV0Request object.

**Entity Name:** DmGwSensorMap

Category: Object Class

This class stores the mappings between the V0 sensor names and ECS sensor names

**Entity Name:** DmGwSensorPlatform

Category: Object Class

This is a part class of the DmGwDataCollection. It contains the sensor names used for measurement of the data collection and its associated platform names. This class is used in resolving V0 directory search requests and validating V0 inventory queries.

**Entity Name:** DmGwStatusCodeMap

Category: Object Class

This class stores the mappings between ECS status codes and V0 status codes. Many ECS status codes may map to a single V0 status code and vice versa

**Entity Name:** DmGwV0BrowseRequest

Category: Object Class

The DmGwV0BrowseRequest is a specialization of the DmGwV0Request class. This class is responsible for processing A V0 Browse request.

**Entity Name:** DmGwV0ECSMapper

Category: Object Class

This class contains all the information and the operations required to map the V0 attributes to ECS and to map the ECS attributes to V0.

**Entity Name:** DmGwV0Request

Category: Object Class

The DmGwV0Request object is the base class from which specialized versions (e.g. DmGwV0BrowseRequest) are derived. DmGwV0Request abstracts the operations and attributes that are common to all gateway V0 request processing. DmGwV0Request objects are created by the V0ServerFrontEnd component.

**Entity Name:** DmGwV0Requests

Category: Object Class

This class keeps track of the V0 requests coming in and their status to perform housekeeping.

**Entity Name:** DmGwV0StatusMessage

Category: Object Class

This class stores the list of V0 status codes and the associated messages.

**Entity Name:** DNS

Category: Object Class  
Implementation of DNS

**Entity Name:** DocumentProfile

Category: Object Class  
This class provides a capability to maintain key, technical information about deployed system documentation. It tracks issues of system documents and relates them to specific system baselines and resources.

**Entity Name:** DOF

Category: Object Class  
FOS and SCDO clients use this framework to locate remote services, bind to those services and invoke methods provided by those servers. They pass the arguments to the server and get the results back from the server. Clients can set security preferences that they desire to have in communicating with the server. FOS and SCDO servers use this framework to register the location of their services, set security preferences, receive incoming calls and redirect them to the appropriate implementation object, create/maintain Access Control Lists associated to the methods described in the service.

**Entity Name:** DpPpAttitudePacket

Category: Object Class  
This class represents a single instance of the attitude packet found in the Level Zero Housekeeping dataset.

**Entity Name:** DpPpAttitudePackets

Category: Object Class  
This class represents the set of attitude packets involved in data quality processing.

**Entity Name:** DpPpAttitudeProcessingSet

Category: Object Class  
Coordinates the data quality processing of the attitude data and building of the attitude datasets.

**Entity Name:** DpPpEphemerisData

Category: Object Class

The ephemeris data is generalized based on its source; the spacecraft ancillary data that is downlinked from the spacecraft (Consultative Committee for Space Data Systems (CCSDS)-formatted and part of the L0 Production Data File for TRMM, and assumed to be CCSDS-formatted and part of the L0 PDS for EOS-AM), and FDF-generated ephemeris products.

**Entity Name:** DpPpEphemerisRecord

Category: Object Class

This class represents a single instance of an ephemeris record as retrieved from the FDF ephemeris record.

**Entity Name:** DpPpEphemerisRecords

Category: Object Class

This class represents the set of ephemeris records involved in data processing, and is a subset of ephemeris records parsed from an FDF ephemeris record.

**Entity Name:** DpPpEphemRecord

Category: Object Class

This class represents the FDF ephemeris record being processed into ephemeris records.

**Entity Name:** DpPpEphemRecords

Category: Object Class

This class represents the FDF ephemeris records from which the ephemeris dataset is derived.

**Entity Name:** DpPpFdfData

Category: Object Class

This class represents all ephemeris data products generated by FDF for both TRMM and EOS-AM. For TRMM, the definitive orbit data from FDF comes via SDPF.

**Entity Name:** DpPpFdfProcessingSet

Category: Object Class

Coordinates the reduction of FDF EPHEM format records to ephemeris dataset format and the data quality processing of the ephemeris.

**Entity Name:** DpPpFdfTrmmDefinitiveOrbitData

Category: Object Class

This class represents TRMM definitive orbit products from FDF provided by SDPF.

**Entity Name:** DpPpLevelZeroData

Category: Object Class

The L0 products can be generalized based on the institutional source i.e. from TRMM spacecraft via SDPF and EOS-AM spacecraft via EDOS.

**Entity Name:** DpPpPreProcessing

Category: Object Class

**Entity Name:** DpPpPreprocessingData

Category: Object Class

This is a superclass that is a generalization of all ephemeris, L0 and external ancillary data.

**Entity Name:** DpPpQacList

Category: Object Class

This class represents the QAC list found in the Level Zero housekeeping dataset.

**Entity Name:** DpPpQaParameters

Category: Object Class

This class represents the set of data quality processing parameters.

**Entity Name:** DpPpSdpfLevelZeroDatasetFile

Category: Object Class

The SDPF Data Set Files are elements of a data product transferred in file format to the consumer. They are based on 24-hour data sets (6 hours in the case of Precipitation Radar APID) containing data generated by the TRMM spacecraft. A Data Set File consists of a Data Set File Header, a unique data set, and quality and accounting information for errored source data units. The 24-hour data are sorted and merged. The data packets received on virtual channels VC0, VC1 and VC11 (all housekeeping APIDs) will be contained within a single file, ordered by time only with redundant data removed, followed by a Quality and Accounting Capsule (QAC) list. Each QAC will contain information for a corresponding packet in the data set that was in error. Data packets received on all other VCs will be sorted by APID with one APID per file. The packets are sorted into forward source sequence count order, with redundant data removed, followed by the QAC list. Again, each QAC will contain information for a corresponding packet in the data set that was in error. There will be a Missing Data Units List (MDUL) at the end of each file. One Detached SFDU Header may reference multiple data set files.

**Entity Name:** DpPpSdpfLevelZeroProductionData

Category: Object Class

The L0 data from SDPF for CERES and LIS instruments for the TRMM spacecraft is a collection of Consultative Committee for Space Data Systems (CCSDS)-formatted telemetry packets. It will consist of L0 header and quality information parameters. The telemetry data packets contain instrument science data, spacecraft ancillary data and housekeeping or engineering data. The SDPF L0 Production Data Files correspond to separate Application Process Identifiers (APIDs). The SDPF L0 structure can be found in SDPF-TRMM Consumer ICD. This SDPF-generated production data is based on 24-hour data sets (6 hour data set for Precipitation Radar APID). The Production Data consists of an optional Standard Formatted Data Unit (SFDU) and Data Set File.

**Entity Name:** DpPpSdpfLevelZeroSfdFile

Category: Object Class

The SFDU (optional) consists of standard labels that uniquely identify and link a Data Set File to its description. The SFDU is referred to as Detached SFDU Header. There is one SFDU Header for each SDPF L0 product. The Detached SFDU Header consists of an SFDU Exchange Data Unit (EDU) Label, a Contents Identifier Object (CIO), and a Reference Identifier Object. One Detached SFDU Header may represent multiple Data Set Files.

**Entity Name:** DpPpTrmmOnBoardAttitudeData

Category: Object Class

This class represents attitude data within the TRMM spacecraft ancillary data contained in the SDPF-generated L0 data set.



**Entity Name:** DpPpTrmmScAncillaryData

Category: Object Class

This class represents data within the TRMM spacecraft ancillary packet contained in the SDPF generated L0 data.

**Entity Name:** DpPpTrmmScOaData

Category: Object Class

This class represents orbit/attitude data within the TRMM spacecraft ancillary packet contained in the SDPF generated Level zero data.

**Entity Name:** DpPrComputer

Category: Object Class

This class is used to represent the set of computer hardware that is being used for science software processing within the Processing System. All management activities for controlling the use of processing resources are performed by this class.

**Entity Name:** DpPrCotsManager

Category: Object Class

DpPrCotsManager is the class which interfaces directly with the scheduling COTS package. This shields the rest of PRONG from knowledge of how to interact with the COTS, and facilitates the possible exchange in the future with a different scheduling package.

**Entity Name:** DpPrDataManagement

Category: Object Class

**Entity Name:** DpPrDataManager

Category: Object Class

This class defines attributes and operations for initializing and managing data granules required by a PGE during its execution. It also ensures data availability before the execution of a PGE. In case of input data is unavailable at our local system disk, it sends request to DataServer to stage data at a specific location that allocated by Resource Management. At the end of the successful execution of a PGE, it asks DataServer to destage (archive) output data and asks Resource Management to deallocate the sources.

**Entity Name:** DpPrDataMap

Category: Object Class

Since this class is a persistent class, it defines attributes and operations for manipulating the instances of objects as the entries in the Sybase DataBase. It can add, delete, update, and select the entry(ies) in the Sybase DataBase.

**Entity Name:** DpPrDiskAllocation

Category: Object Class

This class is used to maintain the individual records of disk storage usage which are used to maintain the integrity of storage allocations and deallocations. These records are uniquely associated with a particular disk partition (i.e., file system) and computer.

**Entity Name:** DpPrDiskPartition

Category: Object Class

This class is used to represent the set of disk storage devices that are being used to contain the input and output data files which are respectively used and produced by the science software, as well as the executable files which comprise the collective set of software known as a PGE. All management activities for controlling the use of the disk resources are performed by this class.

**Entity Name:** DpPrExecutable

Category: Object Class

This class is used to maintain the state of the science software components which are crucial to support the proper runtime operation of a PGE.

**Entity Name:** DpPrExecutionManager

Category: Object Class

The PrExecutionManager class is the interface class for other classes which require execution services. Such services include the allocation of processing resources and disk resources for the executable files, execution of science software, and deallocation of associated resources.

**Entity Name:** DpPrJobManagement

Category: Object Class

**Entity Name:** DpPrPcf

Category: Object Class

This class is used to maintain the state of the Process Control File (PCF), which provides critical runtime information to the PGE, while the science software is executing. Object instances of this class only persist for the lifetime of a PGE run.

**Entity Name:** DpPrPge

Category: Object Class

This class is used to maintain the state of the complete PGE and as such provides for the insertion and deletion of the science software for the local machine and controls execution of the PGE on that platform.

**Entity Name:** DpPrPgeExecutionManagement

Category: Object Class

**Entity Name:** DpPrQaMonitor

Category: Object Class

The DpPrQaMonitor is what the Quality Assurance (QA) position uses to subscribe to and view data products created with QA metadata. The QA operator can enter and withdraw subscriptions to data products, and will be notified via email when the product is available for use. The operator can also modify the QA metadata used to process the subscribed-to product for QA purposes. When the QA position receives email that a subscribed-to product is available, the operator can obtain the product, use tools to visualize the data (based on Data Type) or update the QA metadata used to produce the data.

**Entity Name:** DpPrResource

Category: Object Class

This base class is used to capture the similar features of the derived classes, and to provide for future expansion.

**Entity Name:** DpPrResourceConfiguration

Category: Object Class

This interface class is provided for the sole purpose of filtering hardware configuration information from the CSMS system to the Processing and Planning system.

**Entity Name:** DpPrResourceManagement

Category: Object Class

**Entity Name:** DpPrResourceManager

Category: Object Class

This interface class provides an abstract set of operations for effectively managing the collection of processing and storage resources. Proper use of these operations on the part of the Processing System should provide for the same level of resources as were available to the Planning System during plan generation, thereby helping to ensure that what was planned will be processed.

**Entity Name:** DpPrScheduler

Category: Object Class

DpPrScheduler provides operations to manage science software on a DPR level.

**Entity Name:** DpPrString

Category: Object Class

String is an abstract representation of one or more actual machines

**Entity Name:** DpPrUnusedData

Category: Object Class

This class is a collection of unused data granules that are candidates to be deleted from our local disk whenever we run out of disk space.

**Entity Name:** DsAdDataTypeCollector

Category: Object Class

Provides administration/operations and interface to collectively handle descriptors (i.e., from the database).

**Entity Name:** DsAdDescriptor

Category: Object Class

Provides more functionality than the client descriptor with the ability to update descriptors as an administrative interface to them.

**Entity Name:** DsAdLog

Category: Object Class

Provides administrative logging functions as defined by the MSS object. This allows the operations staff to categorize messages, reports, notify of errors, and view resources used/allocated by the client.

**Entity Name:** DsAdRequestInterface

Category: Object Class

Provides administration/operations staff an interface to look at active and queued requests as well as status information of requests.

**Entity Name:** DsCdASCII

Category: Object Class

This object represents the ASCII type for the document data.

**Entity Name:** DsCdCSDT

Category: Object Class

This object represents the CSDT of the Document ESDT.

**Entity Name:** DsCdHTML

Category: Object Class

This object represents the HTML CSDT type for the Document data.

**Entity Name:** DsCdKeyword

Category: Object Class

This object represents the CSDT keyword for the document data type ESDT.

**Entity Name:** DsCdKeywordLocator

Category: Object Class

This object represents the Keyword locator for the document CSDT's.

**Entity Name:** DsCdPDF

Category: Object Class

This object represents the PDF CSDT type for the Document Data.

**Entity Name:** DsCdPostScript

Category: Object Class

This object represents the PostScript CSDT type for Document data.

**Entity Name:** DsCdRTF

Category: Object Class

This object represents the RTF CSDT type for the Document data.

**Entity Name:** DsCdTypeID

Category: Object Class

**Entity Name:** DsCeCERES

Category: Object Class

This class represents products generated from the TRMM CERES Instrument data.

**Entity Name:** DsCIDescriptor

Category: Object Class

This class is a Data Server Subsystem class and therefore its attributes and operations are defined in the Data Server Subsystem documentation. The DsCIDescriptor class provides the Preprocessing CSC services to access targetMCFs and validate metadata files.

**Entity Name:** DsClAction

Category: Object Class

A client interface object that represents the components of the action to be performed when a subscription is triggered. The possibilities are that the client will receive a notification (including all parameters that are returned by the object that triggers the subscription and an optional piece of client-specified text) and/or a request that will be executed. The client is required to specify an action for each subscription.

**Entity Name:** DsClCollector

## Category: Object Class

This is an abstract, distributed base class for the Collector distributed objects. This class is the client portion of an IDL definition (the corresponding server portion is Connection). This division of function relieves all classes in the DS public class library from having to be knowledgeable of the dataserver object realm. This class inherits from the Rogue Wave RWTPtrOrderedVector and provides all the normal vector behaviors to the specialized classes. There are no attributes for this object.

**Entity Name:** DsClCollectorVector

## Category: Object Class

This private class is maintained in static memory by DsCl items (DsClSubscription and DsClESDTRedference). Those items contain a DsClCollectorVector. This class supports the "hidden construction" of collector objects (and hence, connections to a dataserver). It is a RWTPtrOrderedVector, which is parameterized so that the item which is maintaining it can decide what type of collector to store and track. This class represents a table of available DsCl<item>Collectors which were created by item-level DsCl public classes (i.e., DsClSubscription or DsClESDTRedference). This table will contain a pointer to one DsCl<item>Collector per dataserver. All item-level objects created in the client space independently of a client-created DsCl<item>Collector will be assigned to the default DsCl<item>Collector as defined by the entry in the DsClCollectorVector which corresponds to the dataserver for which the client is creating the independent item. (phew!)

**Entity Name:** DsClCommand

## Category: Object Class

A specialization of the DsCommand class for client interfaces. Adds constructors that ease building of commands based on advertisements, or special direct commands that are "built-in" to the data server and do not correspond to advertisements.

**Entity Name:** DsClDescriptor

## Category: Object Class

This object provides access to services pertaining to the definition of a specific data type. This includes access to metadata configuration information and queriable parameters. This object validates metadata.

**Entity Name:** DsCIESDTReference

Category: Object Class

This object is a reference to an ESDT that is within a DataServer's holdings. This object provides services that are homogeneous for all ESDTs.

**Entity Name:** DsCIESDTReferenceCollector

Category: Object Class

This public, distributed class is a specialization of the Collector class which handles DsCIESDTReferences. This class is much more complex than the base class. This class provides, in addition to the normal set operations for ESDTReferences, the ability to handle requests, working-collection synchronization, and sessions. It also contains private operations to hand the ESDTReference-level actions to the dataserver.

**Entity Name:** DsCIESDTReferenceVector

Category: Object Class

This private class is a vector of ESDTReferences organized by type. This vector is intended to simplify management of ESDTs, which are presumed to be primarily accessed by type. This arrangement also permits storing TypeInfo only once per occurrence of the given type.

**Entity Name:** DsCINotificationReceiver

Category: Object Class

Handles asynchronous notifications from the data server to the currently logged-on client. Client will specify a callback point in his application code to receive these events (e.g. subscription triggering notifications) for each data server that s/he connects to.

**Entity Name:** DsCIQuery

Category: Object Class

This public, local object simplifies the passing of query information from the client to the dataserver. The object is created in client space. The contents of the object will be used to create a Request object which will be passed to the dataserver. It is assumed that the "from" clause of an SQL query is inherent in specification of the dataserver to which the query is issued, that is, that the query is against "the inventory" of the dataserver. Any conversion to actual table names which may be necessary is done transparently to the client software.



**Entity Name:** DsClRequest

Category: Object Class

A specialization of DsRequest for client interfaces. Allows the client to compose a request and submit it to the data server. Once submitted, the status may be polled, or a callback can be provided that is triggered on every status change.

**Entity Name:** DsClRequestVector

Category: Object Class

An instantiation of RWVector over DsClRequest.

**Entity Name:** DsClSubmittedRequest

Category: Object Class

This class is used when a client request is submitted to the data server. It represents the "distributedness" of a request, and manages communication between the real request on the server and the client's request. It provides status to the DsClRequest when the client inquires for it, or by using the callback. It also gives the client access to the results of the request execution through DsClRequest.

**Entity Name:** DsClSubscription

Category: Object Class

This class is the client side subscription which can either be created from advertisements or from existing subscriptions from the server side (through a stream.)

**Entity Name:** DsClSubscriptionCollector

Category: Object Class

This public, distributed class is a specialization of the Collector class which handles DsClSubscriptions. This class provides, in addition to the normal vector operations, the ability to create a list of all subscriptions for a given user or advertisement, and a means of submitting and cancelling subscriptions. There are no attributes for this object.

**Entity Name:** DsClTypeInfo

Category: Object Class

This private, local object provides the place for information related to a type of ESDT to be stored. This information all comes from the Descriptor. This information will be stored only once per Descriptor (i.e. product type) and referenced by all the ESDTReferences of that type. This object contains a DsSdTypeID, which provides the name and version for this type.

**Entity Name:** DsCnConfiguration

Category: Object Class

Manages configuration parameters for various data server components in a token-value style file. Often specialized where needed to provide higher level access to configuration parameters.

**Entity Name:** DsCnDSSConfiguration

Category: Object Class

This is a datserver configuration startup class that starts processes as defined in a configuration file.

**Entity Name:** DsCnDSSStartup

Category: Object Class

This starts up all processes for a particular datserver by enquiring a particular configuration file and initializing/restarting ESDTs.

**Entity Name:** DsCoCombination

Category: Object Class

The class represents 'combined' products, generated using data from more than one satellite or ground based instrument. An example would be the TRMM 2B-31 Level 2B product generated using data from the PR or/and VIRS TRMM instruments.

**Entity Name:** DsCsCSDT

Category: Object Class

**Entity Name:** DsCtAcquireCommand

Category: Object Class

This object represents the document retrieval commands received for the document data.

**Entity Name:** DsCtClient

Category: Object Class

This object is the client object for the server object of Document Data server.

**Entity Name:** DsCtCommand

Category: Object Class

This object represents the client commands received for Document data.

**Entity Name:** DsCtInsertCommand

Category: Object Class

This object represents the insert commands received for the document data.

**Entity Name:** DsCtRequest

Category: Object Class

This object represents the requests from client to the Document Data Server.

**Entity Name:** DsCtSearchcommand

Category: Object Class

This object represents the search commands received for the document data.

**Entity Name:** DsDbAccess

Category: Object Class

This object provides a layer of database-technology-independence to the dataserver objects. Each object type in the dataserver is defined in this object (i.e. a given instantiation of this object will collect the appropriate information about the provided object type from the database and use that information to extract the appropriate data from the database to fill in the attributes of the given object).

**Entity Name:** DsDbAttributeToTableVector

Category: Object Class

This class contains the mappings of attributes to tables and columns within the database. This class contains default locations for each attribute but also allows the table and column names for an attribute to be overloaded on a product basis.

**Entity Name:** DsDbEngine

Category: Object Class

This class represents the Sybase SQL server COTS product.

**Entity Name:** DsDbGranuleToDbVector

Category: Object Class

This class holds the mappings of granules to databases. The class allows for granules to be partitioned based upon product type and temporal range.

**Entity Name:** DsDbInterface

Category: Object Class

This object provides a lower level database wrapper for system applications. It makes all the product-dependent database client library calls transparent to the high level user. It is mainly responsible for establishing, maintaining database connection, executing utility query (e.g. open database, begin/end transaction) or user query (which returns data). The result of user query can be retrieved one at a time through a generic interface to bind result attribute data to user variables.

**Entity Name:** DsDdCDMedia

Category: Object Class

Initiates and monitors the transfer of data items via cpio or tar archive file to a CD resource

**Entity Name:** DsDdCDProcessor

Category: Object Class

Defines the concrete CreateMedia to perform the correct processing of distribution via CD.

**Entity Name:** DsDdDataItem

Category: Object Class

Base class for items to be distributed. For now only a file specialization of this class exists and is used, but the base class is defined to support possible future use of streams et al.

**Entity Name:** DsDdDistFile

Category: Object Class

File containing data to be distributed to the requestor.

**Entity Name:** DsDdDistList

Category: Object Class

List of pointers to all the items to be distributed. This class is derived from a RogueWave template, and so inherits all of the operations (not shown) to manipulate the list.

**Entity Name:** DsDdDistRequest

Category: Object Class

Base class for the client/server specialization of distribution requests. Specifies operations which are available to any client.

**Entity Name:** DsDdDistRequestC

Category: Object Class

User client presentation of the distribution request. A specialization of the constructor is necessary to accomodate hiding of the request manager (which implements the OODCE factory model) from the client.

**Entity Name:** DsDdDistRequestS

Category: Object Class

Server-side presentation of the distribution request. This side has all the services available to all of the clients, and attributes which are maintained as such only on the server side. An instantiation of this class exists for each distribution request in the system, and runs in a separate thread which is created by the request factory (manager).

**Entity Name:** DsDdElectronicMedia

Category: Object Class

Handles the interface to storage management for distribution which utilize network communications for the distributions of the files. No physical shipment of the data items selected is made so there is no need for media or shipping labels.

**Entity Name:** DsDdLabeledMedia

Category: Object Class

This object handles the transfer of data item files to labeled media such as CD and tape. It is specialized for the operation of printing the label which may have different formats for the different resources.

**Entity Name:** DsDdMedia

Category: Object Class

To track the content of distribution media produced by the Data server. Physical distribution media currently identified for distribution includes tapes (3480/3490, 4mm 8mm,6250) and CD ROM disks. The contents of media produced for distribution will be reflected by a packing slip which will be included in the shipping container.

**Entity Name:** DsDdOpsRequestC

Category: Object Class

Presentation of the distribution request services to the operator client. This client has access to privileged services which are not available to the user client.

**Entity Name:** DsDdPackingSlip

Category: Object Class

This object serves as the list of items that were successfully transferred for a given distribution request.

**Entity Name:** DsDdPrivRequest

Category: Object Class

Specialization of the distribution request to provide access to privileged operations. Privileged operations are available to operator clients but not user clients.

**Entity Name:** DsDdPullMedia

Category: Object Class

Initiates and monitors the distribution of data items to the pull staging area

**Entity Name:** DsDdPullProcessor

Category: Object Class

Provides concrete instance of the CreateMedia which processes an electronic pull request.

**Entity Name:** DsDdPushMedia

Category: Object Class

Initiates and monitors the push of DataItems or tar/cpio archive files consisting of DataItems across the network to the requestor.

**Entity Name:** DsDdPushProcessor

Category: Object Class

Defines the concrete CreateMedia which performs processing for electronic push distribution.

**Entity Name:** DsDdRequestList

Category: Object Class

Set of pointers to all distribution requests.

**Entity Name:** DsDdRequestManager

Category: Object Class

Base class for implementation of the OODCE factory model. Derived classes manufacture server-side distribution requests and provide client-side presentations of those requests.

**Entity Name:** DsDdRequestManagerC

Category: Object Class

Client-side presentation of the request factory. The client's applications code will be unaware of the existence of this object, because this object will be created and managed from within the client instance of the distribution request. While this may seem to be a chicken and egg paradox - the distribution request creates the factory, which creates the distribution request - it isn't, because the logic is actually: 1- the client-side distribution request is created, which 2- creates the factory, which 3- is used to create a server-side instance of the distribution request, 4- whose OODCE distributed reference is returned, to the client caller, as the client-side distribution request

**Entity Name:** DsDdRequestManagerS

Category: Object Class

Server-side presentation of the Distribution Request Factory. Manufactures Distribution Requests, the distributed reference for which is returned to the client.

**Entity Name:** DsDdRequestProcessor

Category: Object Class

This base class provides to the distribution request a specialized class with the correct ServiceRequest operation to perform the processing for the media specified in the distribution request. This class and its specializations are a hybrid of the Template and Strategy patterns described in the book "Design Patterns" by Gamma et al.

**Entity Name:** DsDdShippingLabel

Category: Object Class

To contain information indicating the shipping destination for distribution media. A media label is produced for each shipment of distribution data on physical media.

**Entity Name:** DsDdTapeMedia

Category: Object Class

Handles the initiation and monitor of the transfer of data items to magnetic tape as part of a tar or cpio archive file

**Entity Name:** DsDdTapeProcessor

Category: Object Class

Defines the concrete CreateMedia which performs the processing for tape media.

**Entity Name:** DsDeCoreValid

Category: Object Class

This class contains validation information for a core metadata attribute. This class is used to perform the first level of validation of that core metadata attribute. The validation criteria is not based on a specific data type. For example, an attribute might be DSSBeginningDate. The validation criteria at this level will simply ensure that the value for this attribute is a valid date. Further validation is performed by the ValidVector class based on the data type where the value of this attribute would be compared against the valid starting date for this type. It is not necessary that each data type have validation criteria for each attribute if the core validation criteria is sufficient.



**Entity Name:** DsDeCoreValidVector

Category: Object Class

This class contains a collection of CoreValid objects. This class provides services that operate over the collection. The DsDeCoreValidVector class is derived from a standard Rogue Wave vector class.

**Entity Name:** DsDeDD

Category: Object Class

This class contains Data Dictionary information that are specific to this data type. This information is exported to the Data Management Subsystem.

**Entity Name:** DsDeDDVector

Category: Object Class

This class contains a collection of Data Dictionary objects that are specific to this descriptors type. This class provides services that operate over the collection. The DsDeDDVector class is derived from a standard Rogue Wave vector class.

**Entity Name:** DsDeESDTDescriptor

Category: Object Class

To describe the content, structure and behavior of an ESDT. The schema provides a software description of each ESDT that a data server provides. The description includes the structure and services available for each ESDT.

**Entity Name:** DsDeESDTDescriptorSet

Category: Object Class

To provide a mechanism to contain multiple schema and provide a single reference to these schema and their services. The SchemaSet is the collection of all the individual schemas that a data server contains.

**Entity Name:** DsDeEvent

Category: Object Class

This class contains events that any ESDT instance of this type detects the occurrence of and provides notification of that occurrence.

**Entity Name:** DsDeEventVector

Category: Object Class

This class contains a collection of DsDeEvent objects that are specific to this descriptors type. This class provides services that operate over the collection. The DsDeEventVector class is derived from a standard Rogue Wave vector class.

**Entity Name:** DsDeMathOp

Category: Object Class

This class has validation criteria that is mathematically based. This includes mathematical functions such as "LT", "GT", "EQ", etc. The equivalent mathematical functions are used to validate whether a given value satisfies the criteria.

**Entity Name:** DsDeMetadataDef

Category: Object Class

This class contains configuration information about a metadata entry. This class is used for core as well as product specific metadata. DsDeMetadataDef entries are used to build the metadata configuration file (MCF).

**Entity Name:** DsDeMetadataDefVector

Category: Object Class

This class contains a collection of Metadata definition objects that is specific to this descriptors type. This class provides services that operate over the collection. The DsDeMetadataDefVector class is derived from a standard Rogue Wave vector class.

**Entity Name:** DsDeRange

Category: Object Class

This class has validation criteria that specifies a range of values in which any valid entry must fall. This class is templated so that it can operate over any type.

**Entity Name:** DsDeScienceParameter

Category: Object Class

This class contains the science parameters of this data type. These parameters are features of the internal format of the science data.

**Entity Name:** DsDeScienceParameterVector

Category: Object Class

This class contains a collection of ScienceParameter objects that are specific to this descriptors type. This class provides services that operate over the collection. The DsDeScienceParameterVector class is derived from a standard RogueWave vector class.

**Entity Name:** DsDeSeries

Category: Object Class

This class has validation criteria that is a series of discrete entries, each of which is valid. In order for something to be valid, the value must match one of the entries in exactly.

**Entity Name:** DsDeService

Category: Object Class

This class contains the services of this data type. These services include a service name, description and a parameter list which is a template to be filled in during service invocation. Additionally, this class indicates which of the parameters in the list are required. All of this information is used to advertise a service that instances of this ESDT provide.

**Entity Name:** DsDeServiceVector

Category: Object Class

This vector contains DsDeService objects. It is responsible for creating each and for implementing services that operate over the collection of them.

**Entity Name:** DsDeStaticMetadata

Category: Object Class

This class contains metadata name, type, and value for each attribute that is static for the collection of all granules of this type.

**Entity Name:** DsDeStaticMetadataVector

Category: Object Class

This class contains a collection of Static Metadata objects that are specific to this descriptors type. This class provides services that operate over the collection. The DsDeStaticMetadataVector class is derived from a standard Rogue Wave vector class.

**Entity Name:** DsDeValid

Category: Object Class

This class contains the validation criteria for a metadata attribute. This is an abstract base class. All of the classes derived from this class must implement the isValid method. This class is templated based on the type of attribute being validated.

**Entity Name:** DsDeValidVector

Category: Object Class

This class contains a collection of DsDeValid objects that are specific to this descriptors type. This class provides services that operate over the collection. The DsDeValidVector class is derived from a standard Rogue Wave vector class.

**Entity Name:** DsDoClient

Category: Object Class

This object represents the client for Document Data server.

**Entity Name:** DsDoCommand

Category: Object Class

This object represents the commands for Document Data.

**Entity Name:** DsDoCSDT

Category: Object Class

**Entity Name:** DsDoESDT

Category: Object Class

**Entity Name:** DsDoReferencePaper

Category: Object Class

To provide an interface to services for reference documents. ReferencePapers are documents that may be used in support of understanding more about a particular science data product.

**Entity Name:** DsDoRequest

Category: Object Class

This object represents the requests for document data received by the Document Data Server.

**Entity Name:** DsDoServer

Category: Object Class

This object represents server receiving requests for data from Data Server.

**Entity Name:** DsEsAlgorithmDescription

Category: Object Class

This object represents the Algorithmic description for the ESDT's of document type.

**Entity Name:** DsEsAlgorithmDescriptionTypeID

Category: Object Class

This object represents the ID of the Algorithm Description type for the ESDT's.

**Entity Name:** DsEsESDT

Category: Object Class

This object represents the ESDT's of document type.

**Entity Name:** DsEsGuide

Category: Object Class

This object represents the Guide information for ESDT's.

**Entity Name:** DsEsGuideTypeID

Category: Object Class

This object represents the ID of the Guide type.

**Entity Name:** DsEsProductionPlan

Category: Object Class

This object represents the Production Plan for the ESDT's of document type.

**Entity Name:** DsEsProductionPlanTypeID

Category: Object Class

This object represents the ID of the type of the Production Plan.

**Entity Name:** DsEsReferencePaper

Category: Object Class

This object represents the Reference Papers of Document type for the ESDT's.

**Entity Name:** DsEsReferencePaperTypeID

Category: Object Class

This object represents the ID of the Reference Papers of ESDT's.

**Entity Name:** DsEsTypeID

Category: Object Class

This object represents the ID of the type of the ESDT.

**Entity Name:** DsFactory

Category: Object Class

An object of this class is used to establish all client connections to a data server. When a "collector" object is created by the client, it finds the DsFactory object on the desired data server (there is exactly one per data server) and asks it to create a "connection" object on the server to correspond with it. The DsFactory will create this server-side object and return to the "collector" a reference to it, that the collector object can use to perform requests.

**Entity Name:** DsGeBrowseProduct

Category: Object Class

To provide a standard access to data that will be used to aid scientists in assessing their interest in data. The Browse product class is a specialization of the ESDT class. It will provide the services that will allow manipulation of the browse data.

**Entity Name:** DsGeCSDT

Category: Object Class

**Entity Name:** DsGeDynamicLibrary

Category: Object Class

This class implements the loading and unloading of a dynamically linked library. The reason this class is in the General ESDT class category is that this class is only being used in support of dynamic ESDT configurations. However, anyone who has a need for supporting dynamically linked libraries could use this class.

**Entity Name:** DsGeECSDDataProduct

Category: Object Class

To provide a general interface for services provided by ECS Data Product objects. ECSDDataProducts are the ESDTs that are science data objects generated by ECS.

**Entity Name:** DsGeESDT

Category: Object Class

The Earth Science Data Type (ESDT) is a superclass for the various specializations that represent the specific data types. The ESDT organizes and provides an interface to the external and internal services. Most probably this class will be an abstract base class. If there are instances of this class it will be to support a generic type of ESDT that has no data type services other than get, put, and search.

**Entity Name:** DsGeESDTConfiguration

Category: Object Class

This object contains the configuration for all of the ESDTs for which services exist for this data server. The configuration for each ESDT consists of a descriptor, an event table, and a dynamically linked library. The services that this class provides may be subsumed by a database implementation of the needed information based on DsGeTypeID. In the prototype, this classes persistence is maintained in a file.

**Entity Name:** DsGeESDTDynamicLibrary

Category: Object Class

This class provides the functionality needed to load dynamically linked libraries for an ESDTs implementation. The specifics of loading the library are inherited from the DsSdDynamicLibrary class. The library must include the implementation for 2 functions that have C entry points. These functions are newESDT which returns a pointer to a new object of the actual type and deleteESDT which destroys an object that was generated using newESDT.

**Entity Name:** DsGeESDTEventTable

Category: Object Class

This class is used to store ESDT events that are created during startup. In addition, when an ESDT notices that an event has occurred, this class is used to restore those events.

**Entity Name:** DsGeESDTServiceProvider

Category: Object Class

This abstract base class is a generalization of the ESDT and ESDT Wrapper classes. It has virtual functions for all of the public services that are available for all ESDTs.

**Entity Name:** DsGeESDTWrapper

Category: Object Class

This class provides a wrapper around the ESDT classes. Its main purpose in life is to load the ESDTs implementation and to create an actual ESDT of the proper type. It has a few other functions that are common to all ESDTs.

**Entity Name:** DsGeScienceData

Category: Object Class

To provide an interface to services for data that directly supports the earth science investigations and queries. ScienceData is an ESDT that directly supports the services provided on science data products as opposed to non-science data products such as documents, product history and the like.

**Entity Name:** DsGeSummaryProduct

Category: Object Class

A summary product is an ECS data product that represents a summary of the information contained in another ECS data product. For example, a monthly product is an ECS data product but it may also be the summary product for a daily product.



**Entity Name:** DsGeTypeID

Category: Object Class

This object uniquely identifies each ESDT's type. The type consists of a type name and a version number. Each type-version number pair is assigned a unique code. The set of all TypeIDs is stored persistently in a database.

**Entity Name:** DsGvRadar

Category: Object Class

Class represents data derived directly from the TRMM Ground Based Validation Radar (GV) network. This network is supported by a network of rain gauges.

**Entity Name:** DsLiLIS

Category: Object Class

This class represents data products derived from the TRMM Lightning Imaging Sensor (LIS).

**Entity Name:** DsMdCatalog

Category: Object Class

This class is used to provide access to the metadata database. It contains a single database connection, thus a separate instance of this class is required for each thread of execution requiring access to the database. This class represents the logical starting point for access to the database. All Insert, Update, Add, Remove, and Delete methods are executed within the bounds of a database transaction, thus consistency is guaranteed. This class interfaces with the database in terms of Databases, Tables and SQL. It relies on the DsDbInterface class for Sybase specific routines.

**Entity Name:** DsMdMetadata

Category: Object Class

The DsMdMetadata class represents a metadata object in the data server subsystem. It includes all the metadata attribute information and their lookup operations. The attributes are stored in the format of a GIParameterList internally. It also supports operations like importing and exporting metadata object from/to external sources such as PVL strings. Metadata attribute update is also supported through this class. Note that any updates to the metadata object only occurs in memory for this class. The update operation on the DsMdCatalog has to be invoked to make the change persistent.

**Entity Name:** DsNmNMC

Category: Object Class  
National Meteorological Center data

**Entity Name:** DsNpAncillary

Category: Object Class  
This class contains ancillary data products which were input in the generation of standard data products. The type attribute inherited from the DsGeESDT is used to indicate which of the ancillary data types an instance of this class is.

**Entity Name:** DsNpCalibration

Category: Object Class  
This class contains instrument and scientific calibration data. The contents and format of this data are not relevant from the DSS perspective. The DSS must receive, store and distribute this data.

**Entity Name:** DsNpCorrelative

Category: Object Class  
This class contains data products that are used as correlative data to evaluate and validate EOS data products.

**Entity Name:** DsNpNonECSDataProduct

Category: Object Class  
This class represents science data that was not produced within ECS. This includes data that is in non-standard formats as well as data that has been produced to recommendations/specifications provided by ECS to the data producer.

**Entity Name:** DsNpOA

Category: Object Class  
This data type contains orbit and attitude data. From the data type perspective of the DSS, the internal format and contents are irrelevant. The DSS services include receive, archive, and distribute for this type.

**Entity Name:** DsNpPlatform

Category: Object Class

This class represents Satellite Housekeeping Data. The format need not be know to the Data Server.

**Entity Name:** DsNpVersion0

Category: Object Class

This class is the base class for all Version 0 data products. At this level, the DSS has no knowledge of the contents and structure of the individual data types. Subclasses derived from this class would be specific Version 0 data types and would require an ESDTDescriptor that defines the type, its services, its metadata, etc.

**Entity Name:** DsNsHistoricalData

Category: Object Class

Historical data that the DSS archives and provides access to. This includes instrument historical data and spacecraft historical data. These contain commands sent and indications of success or failure of these commands. From the DSS perspective the contents of these data type are not interpreted but merely archived and made available for distribution.

**Entity Name:** DsNsMPR

Category: Object Class

The Metadata Problem Report (MPR) is an ESDT that has information submitted by users related to problems with metadata. This information could be supplied to the QA staff via a subscription.

**Entity Name:** DsNsNonECSDataProduct

Category: Object Class

This class represents science data that was not produced within ECS. This includes data that is in non-standard formats as well as data that has been produced to recommendations/specifications provided by ECS to the data producer.

**Entity Name:** DsNsProdPlans

Category: Object Class

This class contains production plans from the planning subsystem. These plans include candidate plans and active plans. From the DSS perspective the format and content of these plans is not relevant.

**Entity Name:** DsNsProductionHistory

Category: Object Class

To provide a heritage of an ECS data granule. Product History is an ESDT that denotes the steps that have been taken in the production of a particular ESDT object.

**Entity Name:** DsNsQAStatistics

Category: Object Class

To provide an interface to services for the quality data for a data object. QAStatistics are a type of ESDT that indicates the quality of a particular ESDT object.

**Entity Name:** DsNsScienceSoftwareArchivePackage

Category: Object Class

To provide a single interface to the full content of data and information delivered by data producer standard product Algorithm Integration and Test. The delivered algorithm package (DAP) class is a specialization of the ESDT class. It provides services that are specific to the DAP data type. The DAP is also known as a science software package.

**Entity Name:** DsPrRadar

Category: Object Class

The class represents data specifically from the TRMM platform Precipitation Radar (PR) instrument.

**Entity Name:** DsSbActionBase

Category: Object Class

Encapsulates all of the commonality of an action between the client-side class (DsClAction) and the server-side class (DsSbAction).

**Entity Name:** DsSbAction

Category: Object Class

This defines an activity to be performed on behalf of a server when a previously defined and advertised event occurs. Currently, notifications and requests are valid actions.

**Entity Name:** DsSbCallBackTimer

Category: Object Class

To generate calls to another object after a specified interval.

**Entity Name:** DsSbEvent

Category: Object Class

Defines events used by the server.

**Entity Name:** DsSbEventHandler

Category: Object Class

Handles incoming asynchronous events as they occur. It activates the corresponding DsSbRegisteredEvent when DsSbEvents are given to it.

**Entity Name:** DsSbEventTimer

Category: Object Class

To maintain and generate time events to be submitted to the DsSdEventHanler at regular intervals.

**Entity Name:** DsSbFactory

Category: Object Class

This class is instantiated on the server side of an OODCE distributed object pair to create server-side object of the distributed type. In this case, server-side DsSbEvent objects are created when needed, i.e. when clients create new client side DsSbEvent objects.

**Entity Name:** DsSbRegisteredEvent

Category: Object Class

Associates subscriptions with subscribable events. It executes all subscriptions that have been registered for an event when that event occurs.

**Entity Name:** DsSbSubscription

Category: Object Class

Records all characteristics of a single subscription. It is responsible for executing the requested action when the associated event occurs.

**Entity Name:** DsSbSubscriptionInterface

Category: Object Class

Provides an interface to subscription services. Other objects can use it to access all administrative functions that are necessary for creating, removing and managing subscriptions. It also handles event registration, and returns a handle to the DsSdEventHandler to registering events.

**Entity Name:** DsSbTimer

Category: Object Class

To generate time events to be submitted to the subscription system. A timer will monitor the system clock and generate the specified time events.

**Entity Name:** DsSd24BitImage

Category: Object Class

A computer science data type used for the representation of 24 bit images.

**Entity Name:** DsSd8BitImage

Category: Object Class

A computer science data type used the representation of 8 bit images.

**Entity Name:** DsSdAdvertisement

Category: Object Class

To provide service description and service provider information to the interoperability layer. The Advertisement is a description of a service that the data server provides.

**Entity Name:** DsSdClient

Category: Object Class

Acts as an interface class to the CSMS subsystem to use the accounting and user profiling capabilities.

**Entity Name:** DsSdCommand

Category: Object Class

An implementation of the DsCommand abstract base class that provides services necessary for data server creation and storage of command objects.

**Entity Name:** DsSdCSDT

Category: Object Class

Computer Science Data Type. The CSDT is a data structure used by the data server superclass that provides common services for the different types of CSDTs. The CSDT provides the internal representation of data objects.

**Entity Name:** DsSdCSDT

Category: Object Class

Computer Science Data Type. The CSDT is a data structure used by the data server superclass that provides common services for the different types of CSDTs. The CSDT provides the internal representation of data objects.

**Entity Name:** DsSdESDT

Category: Object Class

The Earth Science Data Type (ESDT) is a superclass for the various specializations that represent the specific data types. The ESDT organizes and provides an interface to the external and internal services.

**Entity Name:** DsSdGrid

Category: Object Class

A computer science data type used for the representation of granules in the geolocated data types.

**Entity Name:** DsSdImage

Category: Object Class

A computer science data type used for the representation of the 2D raster data type, primarily for the storage of the pixels for image visualization.

**Entity Name:** DsSdLookUpTable

Category: Object Class

**Entity Name:** DsSdPoint

Category: Object Class

A computer science data type used for the representation of the point data.

**Entity Name:** DsSdRaw

Category: Object Class

**Entity Name:** DsSdRequest

Category: Object Class

To store and track services requested by a client and used in the execution of services. The Request contains all the information that has been provided by the requester as well as any information that has been acquired during the execution of the request. It has the capability to validate the components supplied in the request and to assign a unique identifier for new requests entering the system.

**Entity Name:** DsSdServer

Category: Object Class

To provide a single point of entry for external clients and to manage and create sessions. The server is the single interface to the data server. It provides the interface for a user to establish a connection with the data server.

**Entity Name:** DsSdSession

Category: Object Class

To manage ESDT-oriented interaction between the external client and the data server. It provides an interface for the other objects in the system to communicate with the client and manages a DsSdWorkingCollection on behalf of the client. Adds request queueing and DsSdWorkingCollection handling functionality to DsSdConnection (its super class).



**Entity Name:** DsSdSwath

Category: Object Class

A computer science data type used for the representation of the swath of the images.

**Entity Name:** DsSeIndexer

Category: Object Class

This object represents the COTS Technology for free text Indexing.

**Entity Name:** DsSeWWWServer

Category: Object Class

This object represents the COTS Technology for HTTP connections.

**Entity Name:** DsSrClient

Category: Object Class

Acts as an interface class to the CSMS subsystem to use the accounting and user profiling capabilities.

**Entity Name:** DsSrCommandBase

Category: Object Class

This class provides a common interface to the core information of a command in the system. It is inherited by both the client-side and server-side command classes.

**Entity Name:** DsSrCommand

Category: Object Class

An implementation of the DsCommand abstract base class that provides services necessary for data server creation and storage of command objects.

**Entity Name:** DsSrCommandInfo

Category: Object Class

This class represents the lowest-level core of a command that is shared by client-side and server-side classes. It is contained by the DsSrCommandBase class, which serves as its primary interface. (In standard OO terms, this is the implementation to DsSrCommandBase's interface). This relationship ensures that command objects can be transferred between the client environment and the server environment.

**Entity Name:** DsSrConnection

Category: Object Class

Manages all interaction between clients and the data server. Provides all necessary server-side housekeeping activities (logging, accounting, authorizing) as well as executing client requests.

**Entity Name:** DsSrQueuedConnection

Category: Object Class

Manages all interaction between clients and the data server. Provides all necessary server-side housekeeping activities (logging, accounting, authorizing) as well as managing a priority queue of client requests. Requests are retrieved by priority, so that all HIGH-priority requests are executed before any NORMAL-priority requests, and all NORMAL-priority requests are executed before any LOW-priority requests. Within a priority, the requests are executed in the order that they were received.

**Entity Name:** DsSrRequestBase

Category: Object Class

An abstract base class that represents a prioritized set of commands to be executed on the data server. Inherits an instantiation of an RWVector.

**Entity Name:** DsSrRequest

Category: Object Class

This class presents the interface needed by other server objects to the core request information. It also acts as a vector of DsSrCommand objects that compose this request, and maintains a connection to the client-side request via a DsClSubmittedRequest.

**Entity Name:** DsSrRequestInfo

Category: Object Class

This class represents the lowest-level core of a request that is shared by client-side and server-side classes. It is contained by the DsSrRequestBase class, which serves as its primary interface. (In standard OO terms, this is the implementation to DsSrRequestBase's interface). This relationship ensures that request objects can be transferred between the client environment and the server environment.

**Entity Name:** DsSrRequestVector

Category: Object Class

Manages multiple DsSrRequests for a DsSrQueuedConnection objects. Provides ordering based on priority of DsSrRequests and order of receipt (FIFO).

**Entity Name:** DsSrServer

Category: Object Class

A single DsSrServer object is instantiated in each data server. Its main job is to register and keep track of connections. It also maintains a vector of current submitted requests.

**Entity Name:** DsSrSession

Category: Object Class

To manage ESDT-oriented interaction between the external client and the data server. It provides an interface for the other objects in the system to communicate with the client and manages a DsSdWorkingCollection on behalf of the client. Adds request queueing and DsSdWorkingCollection handling functionality to DsSdConnection (its super class).

**Entity Name:** DsSrSubmittedRequestVector

Category: Object Class

This class is instantiated by the DsSrServer object to maintain a vector of all DsClSubmittedRequests objects that currently exist for this data server. This list can be searched to restore a client's state information after a client shutdown and restart.

**Entity Name:** DsSrWorkingCollection

Category: Object Class

To provide an interface to the current set of ESDT objects. The working collection provides the ability to iterate over this set to perform the requested service. This object facilitates use of a results set as the input domain for further service requests.

**Entity Name:** DsSsSSMI

Category: Object Class

The class represents science data generated from the Sea Surface Microwave Imaging instrument (SSMI), this data is primarily used as ancilliary data for the generation of certain TSDIS products.

**Entity Name:** DsStArchive

Category: Object Class

To provide storage for persistent data. The Archive is the repository for all the permanently stored data in the DataServer.

**Entity Name:** DsStArchivedFile

Category: Object Class

**Entity Name:** DsStCDROM

Category: Object Class

This class provides an interface to the CD-ROM resource. The Ingest Client to Storage Management can use CDROM devices for ingesting data. The Data Distribution Client to Storage Management can use these same resources for distributing data to requesting users.

**Entity Name:** DsStDirectory

Category: Object Class

This class provides the capability to partition an allocated workarea on staging disk. The allocated workarea can be made to have the appearance of an entire disk.

**Entity Name:** DsStFax

Category: Object Class

This class provides an interface to FAX resources managed by the Storage Management CI. This class is scheduled for full development in Release B.

**Entity Name:** DsStFile

Category: Object Class

**Entity Name:** DsStFileDirectory

Category: Object Class

To provide a collection of information on files which have been archived. Information contained in the file directory includes Universal References for data objects, location of data object, size of data object and archive date of data object. The File Directory is used by the Storage Management CI to help insure that all archived data objects are present and accounted for.

**Entity Name:** DsStNetworkResource

Category: Object Class

This class provides a push/pull interface to the network for transferring data for both ingest and data distribution operations.

**Entity Name:** DsStPhysicalResource

Category: Object Class

This class provides a generic interface to all services provided by the physical ingest and data distribution resources of the Data Server.

**Entity Name:** DsStPrinter

Category: Object Class

This class provides an interface to the resource pool of printers used by data distribution to produce shipping labels, packing slips and media labels.

**Entity Name:** DsStPullConfig

Category: Object Class

This class is a specialization of the DsCnConfiguration base class. It manages configuration parameters for the designated electronic "pull" area on magnetic disk.

**Entity Name:** DsStPullList

Category: Object Class

This class provides a mechanism for tracking the contents of the area on magnetic disk designated as the electronic "pull" area. The dynamic record of the data files currently in the pull area allows the Data Server to more efficiently and more quickly provide access to files which users have indicated they desire to electronically pull to their own workstations/workareas.

**Entity Name:** DsStPullMonitor

Category: Object Class

**Entity Name:** DsStRequestManager

Category: Object Class

This class services selected service requests from operations staff and clients. It insures that the service requests are properly routed to the appropriate resource manager(s).

**Entity Name:** DsStReservation

Category: Object Class

This class requests preallocation and/or reservation of a resource. The Reservation is an internal mechanism to allocate a resource at some future time. The reservation request identifies the requestor, the resource to be allocated and the future time the resource will be required.

**Entity Name:** DsStResource

Category: Object Class

To provide an interface to the services provided by the resources of the data server. The Resource is the generic interface to the specific resources within the Data Server.

**Entity Name:** DsStResourceC

Category: Object Class

**Entity Name:** DsStResourceConfig

Category: Object Class

This class is a specialization of the DsCnConfiguration base class. It manages configuration parameters for resources managed by the Storage Management CI.

**Entity Name:** DsStResourceManager

Category: Object Class

To manage and monitor the resources of the data server. The ResourceManager allocates resources that it controls during the processing of requests.

**Entity Name:** DsStResourcePolicy

Category: Object Class

**Entity Name:** DsStResourceQueue

Category: Object Class

This class maintains a list of pending resource requests. Outstanding requests for allocation of resources are queued based upon their respective priority. These requests are dequeued based upon this same priority and resource availability. Each Resource Manager maintains a unique queue for the resources it manages.

**Entity Name:** DsStResourceSchedule

Category: Object Class

To schedule the usage of resources of the data server. The ResourceSchedule is a compilation of all future resource requirements.

**Entity Name:** DsStSCacheConfig

Category: Object Class

This class is a specialization of the DsCnConfiguration base class. It manages configuration parameters for the staging disk cache area.

**Entity Name:** DsStSchedulingConfig

Category: Object Class

This class is a specialization of the DsCnConfiguration base class. It manages configuration parameters for scheduling resources managed by the Storage Management CI. Resources currently managed by the CI include 4mm Tape, 8mm Tape, CDROM, Staging Disk, the ECS Archive and the ECS communications network.

**Entity Name:** DsStStagingDataList

Category: Object Class

This class provides an mechanism for tracking the contents of non-work areas of staging disk used by the Data Server. The dynamic record of the data objects currently on staging disk allows the Data Server to cache data files on staging disk and subsequently provide quicker retrieval access to those data files.

**Entity Name:** DsStStagingDisk

Category: Object Class

To provide an interface to the staging disk resource for the temporary storage of data. The StagingDisk provides temporary and buffer storage.

**Entity Name:** DsStStagingFile

Category: Object Class

This class provides access to file level services for files created in allocated workareas on staging disk. This class is a generalization of the superclass File.

**Entity Name:** DsStStagingMonitor

Category: Object Class

To provide a mechanism to delete data objects appropriately from non-work areas of staging disk and to report utilization of staging disk. The StagingMonitor performs these functions by constantly monitoring the contents of staging disk. Via information contained in theStagedDataList, it determines the correct time to delete files which have been placed on staging to be electronically pulled by requesters but which have not been pulled by the requesting user by a previously indicated date and time. It also deletes other data objects which have been distributed via electronic push and/or physical media.

**Entity Name:** DsStStorageResource

Category: Object Class

To provide an interface to the services provided by the set of storage resources utilized by the DataServer. The StorageResource is a type of resource that is used for providing persistent storage devices for the DataServer.

**Entity Name:** DsStTape

Category: Object Class

This class provides an interface to tape resources managed by Storage Management. The Ingest Client to Storage Management can use tape resources to ingest data files. The Data Distribution Client to Storage Management can use tape resources to distribute data files to requesting users.



**Entity Name:** DsSvServer

Category: Object Class

The Object represents the server object for Document Data Server.

**Entity Name:** DsTmTMI

Category: Object Class

This class represents all data derived directly from the TRMM platform Microwave Imager (TMI) instrument.

**Entity Name:** DsViVIRS

Category: Object Class

Represents all science data products derived directly from the TRMM platform Visible and Infrared Scanner (VIRS).

**Entity Name:** EcAgCotsLog

Category: Object Class

This class contains the log of the COTS programs.

**Entity Name:** EcAgEvent

Category: Object Class

The EcAgEvent defines a distributed object. It provides the capability to dispatch events for orderly and prompt resolution should events occur. The SNMP protocol provides the capability to send traps from agent to SNMP manager. But, the traps are not secure and not reliable. The solution to these problems are using DCE RPC as the transport mechanism for security reasons and sending the traps from MSS Server to the management framework locally. The COTS HP OpenView guarantees the delivery of traps local on one host by using IPC as opposed to UDP. The ECS applications, the EcAgProxy agent, and the MsAgMonitor of the MsAgSubagent can send event notifications to the MsAgSubagent. The MsAgSubagent logs every event into MSS log file. Then, if the severity of the event equals to or is higher than the infoLevel variable, it sends this event notification further to the MsAgDeputy on the MSS Server which in turn convert the event to an SNMP trap and send it locally to the management framework.

**Entity Name:** EcAgManager

Category: Object Class

This class defines a distributed object. It incorporates most of the manager control and instrumentation functionality for ECS applications and COTS. ECS application developers have to use the class library to instrument their code and to provide callback routines so that the ECS applications are manageable by MSS. The EcAgProxy developer has to do the same. The Application MIB provides table format for Fault, Performance, and Configuration parameters to be added by application developers. In order to monitor these parameters, application developers have to provide callback routines for the Subagent to retrieve the value of these parameters. This object provides the capability for the developers to register all the callback functions required. The callback mechanism provided by this object is a generic one. Application developer has to register the callback function first. When the Get request comes in, it will trigger the execution of the callback function to retrieve the value. This object can be invoked by the MsAgDeputy to send Set requests to the MsAgSubagent. The MsAgSubagent can invoke the methods of this object to send Get, Set, or other requests to ECS applications or to the Proxy of COTS. The data structures that application developers have to use are based on the Application MIB definition. The following are examples: Action Type Data Structure Get\_Performance typedef struct { char PerfType[n+1]; int PerfValue; int PerfThreshold; } Get\_Fault typedef struct { char FaultType[n+1]; int FaultValue; } Get\_Config typedef struct { char CfgParam[n+1]; char value[m+1]; } Shutdown typedef struct { int now; }

**Entity Name:** EcAgProxy

Category: Object Class

This object class is primarily for COTS' manageability. It includes the MSS instrumentation class library to enable the manageability of the COTS product. The front-end of this object is the MSS instrumentation code. The back-end of it is the interface to the COTS. It is unique to every COTS. In security management, the logs of COTS are monitored by this object. If an security event occurs, this object has to detect the incident and send out an event notification to the MsAgSubagent.

**Entity Name:** EcApplications

Category: Object Class

This class represents ECS customized applications.

**Entity Name:** EcDAAC

Category: Object Class

**Entity Name:** EcDcDSyncCom

Category: Object Class

This class is used to achieve message passing using asynchronous and deferred synchronous communications. It is designed to work with OODCE-provided DCE-Pthread class which is used to start and control execution of a thread.

**Entity Name:** EcDcDSyncComList

Category: Object Class

This class inherits from the Rogue Wave class called RWPtrSlist. A single linked list of EcDcDSyncCom objects is kept in order to send messages to a group.

**Entity Name:** EcDnAttribute

Category: Object Class

The EcDnAttribute class will contain an attribute name, and type. It will also be referenced by the EcDnElement class. This class will provide methods to get the attribute name and type.

**Entity Name:** EcDnCompositeName

Category: Object Class

The EcDnCompositeName class will define a composite name, which is a nested set of contexts in a given hierarchy concatenated together to establish a Directory Service path name. This class will provide methods to concatenate contexts, list the contents of the composite name in the Directory Service, (soft links, object entries), read entry names, add elements (attribute/value list pair), read element information, and delete element.

**Entity Name:** EcDnContext

Category: Object Class

The EcDnContext class defines the path/set of bindings with distinct atomic names. Every context has an associated naming convention. An EcDnContext object is passed to the EcDnCompositeName object in a structural form as an ordered sequence of components

**Entity Name:** EcDnElement

Category: Object Class

The EcDnElement class will contain an element, which is an attribute-value list pair. It will be referenced by the EcDnCompositeName class. This class will provide methods to add value(s), get value list, delete value(s), modify value(s) and get the element name.

**Entity Name:** EcDnValue

Category: Object Class

The EcDnValue class defines a value. It will also be referenced by the EcDnElement and EcDnAttribute class.

**Entity Name:** EcMpMsgCb

Category: Object Class

This class will handle two types of callbacks: 1. For ordinary receive messages: If an ordinary message is received, then handle Msg is invoked; 2. For acknowledgment of messages: If an acknowledgement is received, then handleAck is invoked. A sending session is basically a point to point session to send a message. Each sender session will have a logical name that is needed to contact the receiver. A list of sending sessions is maintained in a given application. A sender session list contains a callback object which provides virtual functions to be called when a send is complete. This is done at the sender side. A callback object is created and will implement the acknowledgment. The virtual function handleAck is called when a message is delivered to the destination or when the underlying mechanism failed to deliver it within the given constraints (number of tries)

**Entity Name:** EcMpMsgPsngCtrl

Category: Object Class

This class is the controller object, through which any number of receiver sessions can be created. Each receiver session is associated with a unique name (so other applications can send messages to this receiver) and a unique file (optional). The file is used for persistence. When a message comes in, it is stored in the queue associated with the object and a copy of it is stored in the file associated with this object. Internally, this object creates a sender queue. All outgoing messages are kept in this queue. A number of threads are generated internally in the initialize call which periodically get messages from the outgoing queue and send them.

**Entity Name:** EcMpMsgQueueIn

Category: Object Class

**Entity Name:** EcMpQueue

Category: Object Class

This class will be the parent class for the following: EcMpMsgQueueIn EcMpMsgQueueCbIn EcMpMsgQueueOut

**Entity Name:** EcMpQueueCbIn

Category: Object Class

This queue will contain one thread which will execute a callback every time a message is received. The callback will be a virtual function call. This class defines a double linked list queue. It inherits from the Rogue Wave Library file, RWTPtrDlist.

**Entity Name:** EcMpQueueIn

Category: Object Class

This class will be used to queue the messages once they are received. It will provide a Read Wait call and a Read Non-Wait call. The Read Wait call performs a single read operation; however, this call waits until a message is read from the queue. Optionally a time to wait may be provided in the wait call or a default time will be used. The Read Non-Wait performs a single read operation and returns a message from the Incoming Queue (or Null if there are no messages in the queue) and a return status. This class defines a double linked list queue. It inherits from the Rogue Wave Library file, RWTPtrDlist.

**Entity Name:** EcMpQueueOut

Category: Object Class

In case of asynchronous calls, the message is put in a queue, which will be sent later by an internal thread. Controls returns right away. Worker threads will process simultaneous send operations. Each request that arrives is placed at the end of the outgoing queue. After adding the request to the queue, the boss thread will wake up a worker thread and this worker thread will perform the send operation. The send operation will not remove the item from the queue yet. Once done, it will wait for the next request. There will be about five to ten working threads and one boss thread. If the message fails to be sent, then the '\_noOfTries' gets decreased by one, and the '\_lastTimeSent' gets updated to the current time (when the message came back after the send failed). The message will be retried once the '\_lastTimeSent' + '\_timeBetweenRetries' was reached or until '\_noOfTries' expired. If the message failed to be sent, the message will be returned (the callback 'handleAck' will be invoked). The EcMpMsgQueueOut class defines a double link list queue. It inherits from the Rogue Wave library file, RWTPtrDlist.

**Entity Name:** EcMpSessionList

Category: Object Class

This is a container class whose element type is a logical name and will inherit from the RWTPtrSlist class. A session list contains a callback object which provides virtual functions to be called when a send is complete. This is done at the sender side.

**Entity Name:** EcMpTransferCli

Category: Object Class

Class EcMpTransferCli is a surrogate object. This class is the surrogate object for making requests to an EcMpTransfer manager object. An EcMpTransferCli object creates and holds a single instance of this class which it then binds to successive EcMpTransfer manager objects as you ask to to perform a transfer. This class allows you to transfer.

**Entity Name:** EcMpTransferSrv

Category: Object Class

This class is the EcMpTransferSrv manager object. It responds to client's requests to transfer data which results in the enqueueing of the data.

**Entity Name:** EcNotification

Category: Object Class

**Entity Name:** ECSAcl

Category: Object Class

This class is used to access a DCE access control list. It maintains all the information about an ACL. The ECSAclDb stores Acl information, and makes it visible for reading through this interface. The ECSModifyableAcl interface is used for editing ACLs. A ECSAcl is a read-only object. In order to change a ECSAcl, it must be either replaced completely with another ECSAcl, or converted into a ECSModifyableAcl in order to be edited through an application interface.

**Entity Name:** ECSAclDb

Category: Object Class

This class defines the interface to the ACL database. The ACL databases store and retrieve all ACLs based on an object name. ACLs can be organized and retrieved in different ways such as by ACL type (object, default object, or default container), and according to the permission slice. Each database is associated with only one DCEAclSchema that may contain multiple slices. The ECSAclDb implementation must define the ACL locking protocol and provide the mechanism to use it.

**Entity Name:** ECSAclStorageManager

Category: Object Class

This class supports multiple ACL databases. It manages the ACL databases being used by a server, providing registration and search services for these databases. It provides manager type and schema information as needed by the rdacl interface. It also provides functionality for creating a new ECSAclDb.

**Entity Name:** ECSCollection

Category: Object Class

The ECSCollection class is a placeholder that represents the equivalent object from the ECS Core Metadata model. All of the collection specific attributes from the core will be contained in this object.

**Entity Name:** ECSDataArchive

Category: Object Class

This class represents the ECS Data Archive facility.

**Entity Name:** ECSFilePassword

Category: Object Class

This class is the concrete implementation of the abstract DCEPassword class using a file as the means of retrieving the secret key. This class provides a consistent way for accessing the password data for a particular security principal (non interactive principal - server).

**Entity Name:** ECSInformationContent

Category: Object Class

**Entity Name:** ECSModifyableAcl

Category: Object Class

This is a temporary copy of ECSAcl that can be used for editing directly by the server or through an application-defined interface. Users of the 'rdac1' interface do not use ECSModifyableAcl directly, but rather ECSModifyableAcl provides an alternative path for editing ACLs. The contents of a ECSModifyableAcl are not seen when authorization decisions are made. The changes don't take effect until the ECSModifyableAcl is committed back to the database, at which time the ECSModifyableAcl itself no longer exists.

**Entity Name:** ECSSecurity

Category: Object Class

This class is the security class. When it is required to implement security service in any application, it is required by the application developer to instantiate an ECSSecurity object in the serverMain program. This class makes use of the COTS provided classes such as DCEAclSchema, DCESchemaBitset, DCESecId, etc. and also CSS customized classes such as ECSAcl, ECSAclDb, ECSModifyableAcl and ECSAclStorageManager. The ECSAclStorageManager object is per DCE server. Applications can access it through the global reference named ECSAclStorageMgr. ECSAclStorageManager class maintains a table of known ACL databases. Each database can contain ACLs for more than one object. ECSSecurity makes use of ECSAclStorageManager to CreateAclDatabase with the persistent storage feature and to GetDatabaseName. Similarly ECSSecurity uses DCEAclSchema to SetControlPermissions and AddPrintstrings to ACLS, uses ECSAclDb to CreateAcls supplying the name of the object for which the ACL is to be created, to GetAcl and to perform the authorization check on client's privileges to access any resource through IsAuth function.

**Entity Name:** ECSSource

Category: Object Class

The ECSSource Class is a placeholder that represents the equivalent object from the ECS Core metadata model. All of the source specific attributes from the core will be contained in this object.



**Entity Name:** EcTiTimeService

Category: Object Class

This class is used to obtain the current time in various formats.

**Entity Name:** EcUtLogger

Category: Object Class

**Entity Name:** EcUtLoggerRelAAudit

Category: Object Class

Used to create Audit event logging objects.

**Entity Name:** EcUtLoggerRelA

Category: Object Class

This class is a public class that provides a logging capability used by the Management Agent Services logging function.

**Entity Name:** EcUtLoggerRelA

Category: Object Class

This service allows applications to log event and history information to a file which can later be used for study.

**Entity Name:** EcUtLoggerRelADebug

Category: Object Class

Used to log application debugging information.

**Entity Name:** EcUtLoggerRelAFault

Category: Object Class

Used to log Fault events.

**Entity Name:** EcUtLoggerRelAMgmt

Category: Object Class  
Virtual object for management logging.

**Entity Name:** EcUtLoggerRelAPerf

Category: Object Class  
Object for logging Performance events.

**Entity Name:** EcUtLoggerRelASec

Category: Object Class  
Used to log Security events.

**Entity Name:** EosHdf24BitImage

Category: Object Class

**Entity Name:** EosHdf8BitImage

Category: Object Class

**Entity Name:** EosHdfGrid

Category: Object Class

**Entity Name:** EosHdfLUT

Category: Object Class

**Entity Name:** EosHdfPoint

Category: Object Class

**Entity Name:** EosHdfSwath

Category: Object Class

**Entity Name:** EOSVIEW

Category: Object Class

**Entity Name:** ESO

Category: Object Class

A generic Server class is provided at the server side. This class deals with the management of the objects that implement the interfaces. This class provides the functionality to interact with the objects that implement the interfaces. This class provides the functionality to interact with the naming and security services on behalf of the objects it manages. There will only be one instance of this class in a process. An instance of this will be created and bound to a global variable called theServer. Server main application uses this class to manage the objects. The server main is a driver program which uses this class to create a daemon running all the time listening to incoming requests. Each time a request arrives, this application decides which server manager should address the request and spawns a new thread to run that implementation of the server application. Each server driver can manage several server managers. A server manager is one implementation of the server. This class provides all the needed interfaces to deal with core services like the naming and the security. This class provides an abstraction of the interfaces to these core services, which the application programmer can use. The actual interface between this service and the core services is private and the application programmer never uses that directly. The number of requests a server main can take are limited, and can be set by the application programmer. It also maintains a queue to keep the incoming request if all the server implementations are busy. The length of the queue is configurable by the application programmer. If a request arrives when the queue is full, then the request is ignored without any notifications. Application specific behavior can be extended by defining another object inheriting from the global server object (GSO). For example, if the application need to register it some local database, the register method can be implemented in the newly created global server object. This can be done by application programmer.

**Entity Name:** GlBinaryP

Category: Object Class

This class represents parameters that contain a sequence of binary bytes. It records the binary data and its length.

**Entity Name:** GICallBack

Category: Object Class

**Entity Name:** GIDateP

Category: Object Class

This class of parameters holds a single RWDate object.

**Entity Name:** GIDoubleP

Category: Object Class

This class of parameters holds a single double value.

**Entity Name:** GILog

Category: Object Class

**Entity Name:** GILongP

Category: Object Class

This class of parameters holds a single long value.

**Entity Name:** GINotification

Category: Object Class

To alert or inform clients of events. The Notification transmits data from a notification source (e.g. Subscription that has been triggered) to a notification receiver (e.g. a user to created a subscription). It attempts to notify the recipient directly (via the DsCINotificationReceiver object), else via email.

**Entity Name:** GIParameter

Category: Object Class

This is an abstract base class that represents a single parameter that can be passed to many ECS objects. A parameter has a name and an optional description, as well as a value which depends upon its type. Parameters are usually collected together (GIParameterList), and used to dynamically specify values for service calls, result lists, etc. There are several types derived from GIParameter, which implement the value() member function to return an appropriately typed value.

**Entity Name:** GIParameTerList<RWVVector>

Category: Object Class

The GIParameTerList class is placeholder that represents the equivalent object from the global class category. This contains the advertisement submission list of parameters.

**Entity Name:** GIParameTerList

Category: Object Class

This class represents a collection of parameters, and is itself derived from GIParameTer. Therefore, GIParameTerLists can be embedded in themselves to any depth.

**Entity Name:** GIStringP

Category: Object Class

This class of parameters holds a single RWCString object.

**Entity Name:** GITimeP

Category: Object Class

This class represents parameters with an RWTime value.

**Entity Name:** GIUR

Category: Object Class

**Entity Name:** HalDcm

Category: Object Class

This class represents the COTS product HAL DCE Cell Manager. This product provides the capability to manage DCE services, the DCE authentication database (the Registry), access control for cell resources (authorization). Since this is a COTS product, it will not be described in detail here. The reader is referred to the documentation set of the product.

**Entity Name:** HardwareControlItem

Category: Object Class

This class is a specialization of the ResourceProfile class. It provides a capability to identify and characterize individual, deployed hardware items.

**Entity Name:** HardwareTrap

Category: Object Class

This class represents traps received from hardware devices. There are 5 standard traps defined, in addition to which there are enterprise traps defined by the vendor of the routers and hubs that will be deployed in ECS. These are COTS provided.

**Entity Name:** InBOBinMetadata

Category: Object Class

This class provides services to preprocess byte ordered binary data.

**Entity Name:** InBOMetadata

Category: Object Class

This class provides services to preprocess byte ordered data.

**Entity Name:** InDAN

Category: Object Class

This is the DAN (Data Availability Notice) is received from the external Client. The object class contains services to access information in the DAN.

**Entity Name:** InDataPreprocessList

Category: Object Class

The purpose of this class is to retain lists (of files). This class provides services to add files to an existing list and retrieve files from an existing list.

**Entity Name:** InDataPreprocessTask

Category: Object Class

The main purpose of this class is to initiate and monitor required data preprocessing before insertion into the data server subsystem. The InRequest Class instantiates this class for each separate preprocessing task. The InRequest class will supply an object ID for the input file list (which contains the files associated with the preprocessing task). The InDataPreprocessTask Class instantiates the InDataType Class. This class is responsible for the control and reporting of its assigned preprocessing as directed by the InRequest Class. It is also responsible for reporting the state of a particular preprocessing task whenever the state changes. This object class also provides services to cancel, suspend, and resume preprocessing tasks.

**Entity Name:** InDataServerInsertionTask

Category: Object Class

Responsible for the sending of request to the appropriate Data Server based on the data type identifier. The object class has knowledge of the interface protocol with the Data Server and interfaces with the Advertising Service of the Interoperability Subsystem to determine the appropriate Data Server.

**Entity Name:** InDataTransferTask

Category: Object Class

It is responsible for coordinating the data transfer and the population of the InTransferredData object class. In addition, the object class is responsible for attempting the data transfer retries when data transmission failed.

**Entity Name:** InDataType

Category: Object Class

This class provides services to manage the processing of files associated with a specific data type/preprocessing task. This class will contain functionality necessary to preprocess any data type. The functionality executed is driven by the InDataTypeTemplate and InFileTypeTemplate classes.

**Entity Name:** InDataTypeTemplate

Category: Object Class

This class contains information that categorizes each ingest data type. The services provided enable the InDataType Class to determine what the required file types are for a given data type. The class will enable the addition of new ingest data types.

**Entity Name:** InExternalDataProviderThreshold

Category: Object Class

Persistent thresholds on an External Data Provider basis for limits on Ingest request traffic, data volumes, and data transfer retries.

**Entity Name:** InFDFData

Category: Object Class

This class provides services to preprocess FDF data into acceptable data server format.

**Entity Name:** InFile

Category: Object Class

Instantiates an ingested file on available storage space by collaborating with the DsStResource object class services (described in the Data Server Subsystem section of this document). The InFile object class also performs the file size and file existence checks.

**Entity Name:** InFileTypeTemplate

Category: Object Class

This class is responsible for storing information that categorizes each ingest file type (e.g. metadata vs science data). This information is used by the InDataType Class to create the appropriate specializations of the InMetadata and InScienceData base classes. The class will contain the necessary information on how to process each specific file type.

**Entity Name:** InGRIBData

Category: Object Class

This class will provide services to preprocess science data in GRIB format.

**Entity Name:** InGUISession

Category: Object Class

Responsible for reading in the operations staff/user service request interactively via the GUI screen and invokes the appropriate service to process the request. The object class is a derived object class from the InSession object class. It inherits all the data and services provided by the InSession object class.

**Entity Name:** InHDFMetadata

Category: Object Class

This class will provide services to preprocess HDF metadata.

**Entity Name:** InHistoryLog

Category: Object Class

Contains ingest history information. The object class provides services to record ingest events onto the log and to retrieve ingest events from the log.



**Entity Name:** InLogMonitor

Category: Object Class

Provides operations personnel the capability to monitor the Ingest History Log (an alias for Data Receipt Log) via the GUI interface. It allows operations personnel to specify the search criteria for log entries for viewing based on 1) ingest start/stop date and time, 2) data provider ID, 3) data set name, and 4) final request status. The object class is derived from the InGUISession object class. It inherits all the data and service members provided by the InGUISession.

**Entity Name:** InLongDAA

Category: Object Class

This object class populates the long DAA (DAN Acknowledgement) data message to be sent to the external Client after the receipt of the DAN.

**Entity Name:** InLongDDN

Category: Object Class

This object class populates the long DDN (Data Delivery Notice) data message to be sent to the external Client after the data is archived.

**Entity Name:** InMediaIngest

Category: Object Class

Provides operations personnel the capability to perform physical media ingest via the GUI interface. This is a derived object class from the InGUISession object class. It inherits all data and service members provided by the InGUISession.

**Entity Name:** InMessage

Category: Object Class

Contains data messages that interchanges between the external Client and ECS/Ingest.

**Entity Name:** InMetadata

Category: Object Class

This is an abstract class.

**Entity Name:** InMetadataTool

Category: Object Class

This class provides services to read the parameters in a target metadata configuration file, set the values of these parameters, and the write the modified target MCF to a final PVL file.

**Entity Name:** InNetworkIngest

Category: Object Class

Provides authorized science users the capability to ingest data electronically via the GUI interface. The object class is derived from the InGUISession object class. It inherits all the data and service members provided by the InGUISession object class.

**Entity Name:** InPollingIngestSession

Category: Object Class

This object class does not have any control link with the external interface (i.e, no physical stimulus provided from external source). It is a persistent object class which is configured to wake up at a tunable period of time to detect existence of ingest files at a designated location; the location could either be external or local in ECS. If files are detected, the object class will instantiate the InPollingIngestRequest object class and add it to the InRequestList to be processed. The InPollingIngestSession object class is derived from the InSession. It inherits all the data and service members provided by the InSession object class.

**Entity Name:** InPollingThreshold

Category: Object Class

This is a persistent object class that defines thresholds for the Ingest Polling Interface.

**Entity Name:** InPVMetadata

Category: Object Class

This class will provides services to preprocess Parameter-Value metadata.

**Entity Name:** InReformatData

Category: Object Class

This class provides services to preprocess data which is not in an ECS compatible format.

**Entity Name:** InRequest\_C

Category: Object Class

This is the client implementation of the InRequest distributed object. Generated by IDL.

**Entity Name:** InRequest\_S

Category: Object Class

This is the server implementation of the InRequest distributed object. Generated from IDL.

**Entity Name:** InRequest

Category: Object Class

Contains information provided by a requestor/external interface requesting ingest of data. The object class has the responsibility to perform basic request component checking and to assign a unique identifier for the new ingest request.

**Entity Name:** InRequestController

Category: Object Class

Provides authorized operations personnel the capability to update an ongoing ingest request via the GUI interface. The operations personnel could 1) cancel an ingest request, 2) suspend an ingest request, 3) resume an ingest request, or 4) change priority of an ingest request. This is a derived object class from the InGUISession object class. It inherits all the data and services provided by the InGUISession object class.

**Entity Name:** InRequestFileInfo

Category: Object Class

Provides checkpoint storage of file information associated with a given data granule in a given ingest request. In the event of request completion, this item is deleted.

**Entity Name:** InRequestInfo

Category: Object Class

Keeps track of all the requests running per session. Each request information is inserted upon receipt of DAN, and deleted from the list upon completion of request (receipt of DAA).

**Entity Name:** InRequestList

Category: Object Class

Contains a list of all the ingest requests that are currently ongoing or waiting to be processed in the order based on the priority. The object class has the responsibility 1) to add ingest request to the list based on the priority, 2) to delete an ingest request, 3) to search for an ingest request, and 4) to list the ingest requests.

**Entity Name:** InRequestManager\_C

Category: Object Class

The client implementation of the distributed InRequestManager object. This client acts as the intermediary to the object factory (InRequestManager\_S).

**Entity Name:** InRequestManager\_S

Category: Object Class

Implementation of the server (object factory) for InRequestManager.

**Entity Name:** InRequestManager

Category: Object Class

This is a focal object class of the Ingest CI. It coordinates the ingest processing which includes the initiating of the data transfer and the sending of data insertion request to the appropriate Data Server. The object class also tracks and allows updates the ingest thresholds.

**Entity Name:** InRequestProcessData

Category: Object Class

Provides checkpoint storage of data granule processing information associated with a given ingest request. In the event of request completion, this item is deleted.

**Entity Name:** InRequestProcessHeader

Category: Object Class

Provides checkpoint storage of ingest request processing information associated with a given ingest request. In the event of request completion, this item is deleted.

**Entity Name:** InRequestSummaryData

Category: Object Class

Provides long-term storage of summary data type statistics associated with a given data granule in a given ingest request.

**Entity Name:** InRequestSummaryHeader

Category: Object Class

Provides long-term storage of summary request-level statistics associated with a given ingest request.

**Entity Name:** InResourceIF

Category: Object Class

Serves as an interface to resource/device services (e.g., device allocation, data transferring, and file information) by which the Data Server Subsystem provides. The object class interfaces with the Storage Resource Management and Data Distribution CSCIs of the Data Server Subsystem. Refer to the Data Server Subsystem section of this document for details.

**Entity Name:** InScienceData

Category: Object Class

This is an abstract class

**Entity Name:** InSDMetadata

Category: Object Class

This class provides services to preprocess data which is in self-descriptive format other than HDF.

**Entity Name:** InServer

Category: Object Class

Provides a single point of entry to the Ingest system for all ingest interfaces. The object class manages ingest sessions.

**Entity Name:** InServerExtRPC\_C

Category: Object Class

This is the client/proxy implementation that defines the RPC for initiating an Ingest Session.

**Entity Name:** InServerExtRPC\_S

Category: Object Class

This is the server implementation that defines the services for creating a new session.

**Entity Name:** InServerIntRPC\_C

Category: Object Class

This is the client/proxy implementation for the InServer object class. The provided services are to be used by the InSession object class.

**Entity Name:** InServerIntRPC\_S

Category: Object Class

This is the server implementation (factory) for the InServer object class. The provides services are to be used by the InSession object class.

**Entity Name:** InSession

Category: Object Class

This is the super object class for specialization object classes that handle specific external interfaces. In general, the object class manages the hand-shaking protocol with the ingest service requestor. It verifies that the requestor has privilege to perform the data ingest service. The InSession instantiates the InRequest and adds to the InRequestList to be processed. In addition, the InSession allows cancellation, suspension, and resumption of the Ingest Request processing running under the session. Suspension and resumption are post Release A functions.

**Entity Name:** InSessionEcsRPC\_C

Category: Object Class

This is the client/proxy implementation that defines services for sending outgoing data messages from the ECS Ingest.

**Entity Name:** InSessionEcsRPC\_S

Category: Object Class

This is the server implementation that defines services for sending outgoing data messages from ECS Ingest to external client.

**Entity Name:** InSessionExtRPC\_C

Category: Object Class

This is the client/proxy implementation that defines the RPC (Remote Procedure Call) for delivering data message from the external Client to ECS/Ingest.

**Entity Name:** InSessionExtRPC\_S

Category: Object Class

This is the server implementation that defines services for sending data messages from the external client to ECS Ingest.

**Entity Name:** InSessionInfo

Category: Object Class

Keeps track of all the sessions running under the Ingest Server.

**Entity Name:** InSessionIntRPC\_C

Category: Object Class

This is the client/proxy implementation for exporting the data messages to the InSession object class.

**Entity Name:** InSessionIntRPC\_S

Category: Object Class

This is the server implementation for exporting data messages to the InSession object class.

**Entity Name:** InShortDAA

Category: Object Class

This object class populates the short DAA (DAN Acknowledgement) data message to be sent to the external Client after the receipt of the DAN.

**Entity Name:** InShortDDN

Category: Object Class

This object class populates the short DDN (Data Delivery Notice) data message to be sent to the external Client after the data is archived.

**Entity Name:** InSourceMCF

Category: Object Class

This class retains configuration information on source input files (i.e., source parameter name, parameter location). This class provides services to retrieve, delete, and add configuration information for a specific source metadata configuration.

**Entity Name:** InStatusMonitor

Category: Object Class

Provides operations personnel the capability to monitor the state of ingest request(s) via the GUI interface. It allows operations personnel to specify all ingest requests or particular ones of interest for viewing. This is a derived object class from the InGUISession object class. It inherits all data and service members provided by the InGUISession object class.

**Entity Name:** InSystemThreshold

Category: Object Class

Persistent storage of Ingest system-level thresholds that limit ingest request traffic and data volume.

**Entity Name:** InTemplateEditor

Category: Object Class

Provides operations personnel with the capabilities to edit the templates associated with the Ingest Preprocessing via the GUI interface.

**Entity Name:** InThreshold

Category: Object Class

This object tracks all of the thresholds for the ingest system.



**Entity Name:** InThresholdController

Category: Object Class

Provides authorized operations personnel the capability to view or to set an ingest threshold via the GUI interface. The types of ingest thresholds consist of: 1) ingest request threshold--maximum requests allowed to be processed concurrently, 2) data volume threshold--maximum allowed data volume to be processed concurrently, and 3) transfer retry threshold--number of data transfer retry attempts when failure occurred. The object class is derived from the InGUISession object class. It inherits all the data and service members provided by the InGUISession object class.

**Entity Name:** InTransferredData

Category: Object Class

Performs services to instantiate ingested data files. Upon the creation of the InTransferredData object class, if the Delivery Record file is provided, the object class would contain the information for the grouping of the data type with the corresponding files. Otherwise the data type information is provided in the input request.

**Entity Name:** IntrusionDetectionTest

Category: Object Class

This class represents a security test that checks for intrusions. Tripwire is a public domain product that tests for the integrity of a file system by generating checksums of files and comparing them with a previously generated database of checksums. The configuration of this product involves establishing the database of file signatures, and establishing a schedule for the execution of the tests, and the capability for the execution of the tests on-demand. TCP wrappers is a public domain product that monitors and controls access to network services on a host. The configuration of this product involves the specification of access rules for network services, configuring the logging of access attempts. Since these represent COTS products, they will not be described in detail here. The reader is referred to the appropriate COTS documentation set.

**Entity Name:** IoAdAdvertisement\_C

Category: Object Class

This class provides the general attributes and operations for all advertisement interface objects. Specific derived types of advertisements (e.g., IoAdProductAdvertisement\_C) inherit the properties of this base class.

**Entity Name:** IoAdAdvertisingCollection\_C

Category: Object Class

This class is a generic base class for the interface to collections of advertisements. This class implements the common functionality of all advertisement collections. Specialized versions of the collection class are provided for Service, Product, and Provider advertisement collections.

**Entity Name:** IoAdAdvertisingSrv\_C

Category: Object Class

IoAdAdvertisingSrv\_C is an aggregate class of service, provider, and product advertisement. It manages the collections of service, provider, and product advertisement.

**Entity Name:** IoAdContact\_C

Category: Object Class

The IoAdContact\_C class manages access to the contact person for a given advertisement.

**Entity Name:** IoAdMimeType\_C

Category: Object Class

The IoAdMimeType\_C class provides access information for a service that is represented as a Mime type (e.g., http, telnet, etc.).

**Entity Name:** IoAdProductAdvertisement\_C

Category: Object Class

The IoAdProductAdvertisement\_C class is a specialization of the IoAdAdvertisement\_C base class that is used to provide access to a product advertisement.

**Entity Name:** IoAdProductCollection\_C

Category: Object Class

The IoAdProductCollection\_C class is a specialization of the IoAdAdvertisingCollection\_C base class. It is responsible for managing access collections of product advertisements (i.e., IoAdProductAdvertisement\_C).

**Entity Name:** IoAdProviderAdvertisement\_C

Category: Object Class

The IoAdProviderAdvertisement\_C class is a specialization of the IoAdAdvertisement\_C class that provides a representation of a provider advertisement.

**Entity Name:** IoAdProviderCollection\_C

Category: Object Class

The IoAdProviderCollection\_C is a specialization of the IoAdAdvertisingCollection\_C base class. It is responsible for managing access to a collection of provider advertisements (i.e., IoAdProviderAdvertisement\_C).

**Entity Name:** IoAdRequiredSW\_C

Category: Object Class

This IoAdRequiredSW\_C class provides access to information describing a software component required to access the service.

**Entity Name:** IoAdSearchCallback

Category: Object Class

The IoAdSearchCallback class provides a general framework for notifying client classes when an advertising search has completed. Whenever a search completes, the appropriate operation of the callback class is invoked.

**Entity Name:** IoAdServiceAdvertisement\_C

Category: Object Class

This operation is a specialization of the IoAdAdvertisement\_C base class. It is responsible for representing the interface to a service advertisement.

**Entity Name:** IoAdServiceAdvertisement

Category: Object Class

**Entity Name:** IoAdServiceCollection\_C

Category: Object Class

The IoAdServiceCollection\_C class is a specialization of the IoAdAdvertisingCollection\_C class. It is responsible for providing collection management for service advertisements (IoAdServiceAdvertisement\_C).

**Entity Name:** IoAdServiceType\_C

Category: Object Class

The IoAdServiceType\_C class is a base class for the service type portion of a service advertisement.

**Entity Name:** IoAdSignatureType\_C

Category: Object Class

The IoAdSignatureType\_C class provides access to information required to access a signature type service. Signature type services are accessed via dynamic API services.

**Entity Name:** LibraryFile

Category: Object Class

This class provides the capability to hold and control versions of software, documentation, control data and test data.

**Entity Name:** ManagementFramework

Category: Object Class

This class is HP OpenView Network Node Manager, a COTS product. This product provides the management framework with the underlying management services for the management of SNMP-based network devices. It also provides the necessary integration points and services for the integration of management applications. Since this class is all COTS, it will not be described in detail here. The reader is referred to the documentation set of HP OpenView Network Node Manager for further details on the product.

**Entity Name:** ManagementRDBMS

Category: Object Class

This class represents the Management Data Relational Database (a COTS package).

**Entity Name:** Message\_Passing\_Service

Category: Object Class

This implementation will provide for asynchronous and synchronous message passing with store and forward, and recovery - persistence. The concept of groups is included into this API. A group is a symbolic name and it represents a number of receivers. Each receiver will be identified by a logical name associated to a UUID. This API will handle messages consisting of only byte streams.

**Entity Name:** MIBExtension

Category: Object Class

The SNMP MIB extension defined for resources being managed other than MIB II. This is an abstract class.

**Entity Name:** MsAcGuestUserReq

Category: Object Class

This class provides access to the pending requests for registered user accounts.

**Entity Name:** MsAcManagerUI

Category: Object Class

This class provides the user interface to allow an operator to view pending requests for registered accounts, create a registered user account from an entry in the pending requests list.

**Entity Name:** MsAcPrincipal

Category: Object Class

This class represents a DCE principal which is accessed by means of CSS provided APIs.

**Entity Name:** MsAcProxy

Category: Object Class

This class is a specialization of the EcAgProxy class. It provides the capability for the monitoring and management of the Accountability Management Service.

**Entity Name:** MsAcRegUser

Category: Object Class

This class represents a registered user in the system. This class is an aggregation of a principal and a user profile. The class MsAcPrincipal represents a DCE principal, and is accessed by means of CSS provided APIs.

**Entity Name:** MsAcReport

Category: Object Class

This class represents accountability reports that are generated by this service. These reports are generated from the data in the management database.

**Entity Name:** MsAgAgent

Category: Object Class

This managed object class is the master (SNMP) agent on the host. It listens to port 161 to receive SNMP requests from management applications. It also sends SNMP traps to management applications when certain events occur. SNMPv1 is supported in Release A. MSS requires this master agent be extensible to support subagents. The agent performs authentication and authorization validations on incoming requests. If the requested MIB variables are in MIB II, it performs the functions requested. If the MIB variables are not in MIB II but in registered MIB extensions, it passes the request to the subagent which supports that particular MIB extension.

**Entity Name:** MsAgAppMIB

Category: Object Class

The SNMP MIB extension defined for applications, especially for ECS applications being managed. Three groups of objects are defined. Due to the number of variables, they are not all enumerated in this document. Each one has general attributes defined based on the functional areas of management applications such as configuration, performance, fault, and security, wherever applicable. The application-specific attributes can be defined by application developers in an extensible way using tables. Attributes: Application - the application to manage. Program - the program in the application package being managed. Process - the process of a program in the application being managed.

**Entity Name:** MsAgDeputy

Category: Object Class

This object is used both by the management applications and by the subagent. The management applications can send Set requests to the subagent through this object. The subagent can send event notifications to this object so an SNMP trap can be emitted to management framework.

**Entity Name:** MsAgEncps

Category: Object Class

The encapsulator enables the MsAgAgent to communicate with non-Peer agents.

**Entity Name:** MsAgMonitor

Category: Object Class

MsAgMonitor is spawned by the MsAgSubagent. It provides the local polling capability to monitor resources being managed. This can avoid the costly remote polling done by management applications while still being able to monitor the state of the resources. If error conditions occurred, it informs the agent to send a trap to the management application(s). The scope of this local polling is the host. The time interval applies to all the resources that are monitored by this object. This class also provides the capability for monitoring transient processes. Applications may specify that transient processes that they create be monitored for their presence until the monitoring is no longer required. Start and stop indications are needed from applications. Between the start and stop requests, the transient process is monitored. In the event that a monitored process fails, a notification is sent to the interested application.

**Entity Name:** MsAgSubagent\_C

Category: Object Class

This class is imported from Management Agent Services. It provides the capability for the MsPmManager to configure the collection of application performance data by the management agent located on the application host platform. This class is implemented via C++ code.

**Entity Name:** MsAgSubAgent

Category: Object Class

This managed object class supports SNMP MIB extensions. It receives requests from the master agent. Based on Get or Set requests, it performs the retrieval or set functions onto resource or resource managers using available API. This object will instantiate another object MsAgMonitor to perform local polling on resources on the host.

**Entity Name:** MsAuthenticationDB

Category: Object Class

This class represents the authentication databases that provide authentication for principals. This functionality is provided by COTS products.

**Entity Name:** MsCmBmProxyAgent

Category: Object Class

This class provides a system management interface for lifecycle services, event reporting, and instrumentation.

**Entity Name:** MsCmCrmProxyAgent

Category: Object Class

This class provides a system management interface for lifecycle services, event reporting, and instrumentation.

**Entity Name:** MsCmScmProxyAgent

Category: Object Class

This class provides a system management interface for lifecycle services, event reporting, and instrumentation.

**Entity Name:** MsDAAC

Category: Object Class

**Entity Name:** MsEvent

Category: Object Class

**Entity Name:** MsFlAction

Category: Object Class

The class MsFlAction provides the capabilities to process events generated from external stimuli. This processing may include the issuing of notifications to an operator via the Graphical User Interface using the services of HP OpenView NNM, or the launching of automated actions in response to the received notifications, based on the configuration information set up. The methods in this class are executed in response to receiving traps. The traps received and processed are listed below against with the managed objects they correspond to: Network devices (provided by HP OpenView) OV\_node\_up OV\_node\_down Communication links (provided by HP OpenView) OV\_link\_up OV\_link\_down Interface cards (provided by HP OpenView) OV\_IF\_up OV\_IF\_down Tape drives (ECS-specific) ECS\_tape\_up ECS\_tape\_down) Disk drives (ECS-specific) ECS\_disk\_up ECS\_disk\_down Printers (ECS-specific) ECS\_printer\_up ECS\_printer\_down ECS applications (ECS-specific) ECS\_application\_startu ECS\_application\_shutdown ECS\_application\_discovery ECS\_application\_missing ECS\_application\_failed



**Entity Name:** MsFlConfig

Category: Object Class

This class represents the capability of the ManagementFramework (HPOV NNM) to maintain a mapping between traps (or events) and the Actions to be executed in response to their occurrence. The capability for the definition of the configured information is made available by the ManagementFramework via the graphical user interface to the operator. The reader is referred to the documentation set of HP OpenView Network Node Manager for further details on this capability.

**Entity Name:** MsFlExtSys

Category: Object Class

This class represents the interface to external systems such as NSI.

**Entity Name:** MsFlManager

Category: Object Class

This class provides the necessary functionality to perform the real-time configuration management functions of the discovery, startup and shutdown of ECS applications (such as the Science Data Server or the Data Processing Service). It also provides the functionality to dispatch real-time notifications to ECS Applications via the Management Agent Services. These functions are initiated by external stimuli (operator actions) at the user interface, which is provided by HP OpenView NNM.

**Entity Name:** MsFlSMC

Category: Object Class

This class represents the interface between the Fault Management Application Service at a site and the Fault Management Application Service at the SMC.

**Entity Name:** MsFlTest

Category: Object Class

This class represents Diagnostic Tests, as available from vendors.

**Entity Name:** MsManager

Category: Object Class

**Entity Name:** MsMdAggregateLogFile

Category: Object Class

This class represents an aggregate of the log file data for a single managed host over a given time period. The data is held in these files until it is process for the Management RDBMS and archived.

**Entity Name:** MsMdAggregateLogFileList

Category: Object Class

This class represents a list aggregate log files for the hosts at a single DAAC.

**Entity Name:** MsMdConfigurationEntry

Category: Object Class

This class represents the configuration parameters for a single managed MSS host logfile.

**Entity Name:** MsMdConfigurationList

Category: Object Class

This class represents the configuration of the MsMdManager.

**Entity Name:** MsMdManager

Category: Object Class

This class encapsulates the functionality required to centralize and process the ECS log files.

**Entity Name:** MsMdSchedule

Category: Object Class

This class represents the current schedule for MSS logfile transfers.

**Entity Name:** MsMdScheduleEntry

Category: Object Class

This class represents the schedule entry for a single managed MSS host logfile.

**Entity Name:** MsMdUserInterface

Category: Object Class

This class represents the user interface to the Management Data Access Services. From this interface, MSS logfile data can be browsed, sorted, and filtered. Additionally this interface provides the functionality to update the MDA configuration parameters.

**Entity Name:** MsMgCallbacks

Category: Object Class

**Entity Name:** MsPcProxy

Category: Object Class

The Physical Configuration Proxy Agent class provides the interface to the Management Agent Services. It allows the Physical Configuration Manager software to be remotely monitored and managed.

**Entity Name:** MsPmApplManager

Category: Object Class

This class is a COTS product that monitors ECS system performance. It provides the capability to monitor performance parameters covering areas such as memory utilization, CPU utilization, disk i/o, and queue lengths. Since this class is all COTS, it will not be described in detail here. Additional information is available in the MsPmApplManager documentation.

**Entity Name:** MsPmConfig

Category: Object Class

This class provides configuration information to the Management Framework. It is used by the the ManagementFramework to store thresholds and performance measurement intervals for performance metrics. This class is implemented by configuring the ManagementFramework COTS package.

**Entity Name:** MsPmEvent

Category: Object Class

This class defines the event that is generated by the ManagementFramework or the MsPmApplManager whenever a measured attribute value exceeds a configured threshold. The generated event is forwarded to the fault management element of the ManagementFramework. This class is implemented by configuring the ManagementFramework and MsPmApplManager COTS packages.

**Entity Name:** MsPmExtSys

Category: Object Class

This class provides the interface for the MsPmManager to send performance management information, reports, and notifications to external systems via e-mail.

**Entity Name:** MsPmList

Category: Object Class

This class stores configuration information. It is implemented by configuring the ManagementFramework COTS package.

**Entity Name:** MsPmManager

Category: Object Class

This class provides the capability for generating and sending performance management reports to external systems and the SMC. This class is implemented via scripts.

**Entity Name:** MsPmProxy

Category: Object Class

This class is a specialization of the EcAgProxy class. It provides the capability for the monitoring and management of MsPmApplManager. This class is implemented by customizing C++ code developed under management agent services.

**Entity Name:** MsPmSMC

Category: Object Class

This class sends summary performance data to the SMC via e-mail. This data is in the form of a standard summary report generated by the MsPmManager from information logged in the management database.

**Entity Name:** MsPmTest

Category: Object Class

This class represents the tests that may be run to gather information on the performance of managed objects. These tests are COTS products. This class is implemented by the ManagementFramework COTS package.

**Entity Name:** MsScAuthorizationDB

Category: Object Class

This class represents the authorization databases that provide access control for resources. This functionality is provided by COTS products (router configuration files, operating system access control lists, TCP wrapper configuration files, and DCE ACLs). Since these are provided by COTS, they will not be described in detail here. The reader is referred to the appropriate documentation set for details.

**Entity Name:** MsScExtSys

Category: Object Class

This class provides the interface for MsScManager to send security data or electronic mail to external systems.

**Entity Name:** MsScManager

Category: Object Class

This class provides the capability for the M&O Staff to generate security reports, and to run initiate the execution of security tests.

**Entity Name:** MsScProxy

Category: Object Class

This class is a specialization of the EcAgProxy class. It provides the capability for the monitoring and management of the Security Management Service (startup and shutdown).

**Entity Name:** MsScReport

Category: Object Class

This class represents the reports generated by the COTS and from the security data stored in the management database.

**Entity Name:** MsScSMC

Category: Object Class

This class represents the interface between the site Security Management Service and the SMC. It provides the capability to send a report, or a an electronic mail message to the SMC.

**Entity Name:** MsScTest

Category: Object Class

This class represents the Compliance Management and Intrusion Detection tests that may be run. These tests are COTS products, and will not be described in detail here. The reader is referred to the documentation set of the COTS.

**Entity Name:** MSSLog

Category: Object Class

**Entity Name:** MsTrap

Category: Object Class

MsTrap represent changes in the state of managed objects (COTS and custom). These changes may be acceptable changes in state (normal events), or they may represent unacceptable changes in state (faults) of managed objects. Traps are generated by Management Agent Services and are received by the ManagementFramework (HPOV NNM), which determines the appropriate MsFlAction to be executed based on the configuration information represented by MsFlConfig. Traps for COTS products are defined by the vendors of the COTS products (such as routers), whereas Traps unique to ECS (for ECS Applications) are defined in the ECS Application MIB. These include special Traps such as DiscoveryTraps, StartupTraps and ShutdownTraps. These are discussed in the section on the MsFlAction class.

**Entity Name:** MsTtEntry

Category: Object Class

The MsTtEntry class models a request for action on a particular problem and the subsequent actions performed on it. This class encapsulates the common definition of a trouble ticket configured in the ECS implementation of the Remedy Action Request System

**Entity Name:** MsTtManager

Category: Object Class

The MsTtManager class represents the Remedy Action Request System, a COTS product. This product provides the core functionality for tracking, classifying, and reporting problem occurrence and resolution. Since this class is purely COTS, it will not be described in detail here. For ECS specific configuration information of the product, the reader is directed to DID 305, section 4.6.5.1, Trouble Ticketing Management Services CSC. For detailed product information, the reader is directed to the Remedy Action Request System documentation set.

**Entity Name:** MsTtProxy

Category: Object Class

The MsTtProxy class provides the interface to the Management Agent Services. It allows the MsTtManager (Remedy) software to be remotely monitored and managed. The methods on this class are the callbacks provided as specific implementation of the MSS lifecycle calls.

**Entity Name:** MsTtServiceRequestor

Category: Object Class

The MsTtServiceRequestor class is responsible for processing requests from the MsTtUserInterface and fulfilling them using the functionality provided by the MsTtManager (Remedy).

**Entity Name:** MsTtUserInterface

Category: Object Class

The MsTtUserInterface class represents the set of HTML documents which define the common interface provided to the users in order to create or query the status their trouble tickets.

**Entity Name:** MsUsProfile

Category: Object Class

**Entity Name:** MsUsProfile

Category: Object Class

**Entity Name:** MsUserProfile

Category: Object Class

This is a public class (and a distributed object) that is exported by this service. Other subsystems use this class in order to retrieve the user profile for a specified user.

**Entity Name:** Naming

Category: Object Class

Implementation of the Directory Naming Service.

**Entity Name:** NetworkManager

Category: Object Class

The NetworkManager class is responsible for the logical management of the network. The Physical Configuration Manager has application extensions to read network component information directly from the Network Manager class and load it into the database, or a command can be executed at the request of the user to extract the information. This allows dynamic network data to be acquired and processed.

**Entity Name:** OSACL

Category: Object Class

This class represents access controls provided by an operating system for host resources. Since this represents COTS, it will not be described in detail here. The reader is referred to the appropriate documentation for details.

**Entity Name:** OS

Category: Object Class

This class represents the authentication database provided by the operating system. Since this is provided by COTS, it will not be described in detail here. The reader is referred to the appropriate documentation for details.

**Entity Name:** PhysicalConfigurationManager

Category: Object Class

The Physical Configuration Manager class is responsible for transforming logical network management into a physical one. It provides a variety of tools and mechanisms to collect, maintain, and control information concerning the physical components of the network.



**Entity Name:** PActivePlan

Category: Object Class

This class is the specialization of the PIPlan class and contains the methods to manage the activation, cancelling, and statusing of a plan

**Entity Name:** PActivities

Category: Object Class

This class is a container class for activities in the PDPS database. This class may be implemented by a suitable Rogue Wave template class.

**Entity Name:** PActivity

Category: Object Class

This class describes an item within a plan. The activity class is a base class within a specialization heirachy descrining the different activities which occur in the production plan.

**Entity Name:** PAddressFile

Category: Object Class

This class represents a list of recipients to be informed when a new plan is published. The object oriented notation is used so that this element can be captured in the design, however this class will probably be implemented by a simple text file to be read by the publish script. These components will be replaced when the document data server supports subscriptions to published plans.

**Entity Name:** PApplication

Category: Object Class

A base class for application programs describing name, version etc.

**Entity Name:** PComputer

Category: Object Class

This class describes the computers which are part of the resource configuration for the production system.

**Entity Name:** PIDataGranule

Category: Object Class

This class describes individual instances or granules of data types.

**Entity Name:** PIDataScheduled

Category: Object Class

This specialization of the PGE accounts for the classification of PGEs whereby the PGE scheduling is determined from some regular time period, such as an hour, a day, a week, a month etc.

**Entity Name:** PIDataSource

Category: Object Class

This class is the base class that provides the methods for predicting when external data will arrive within the ECS from SDPF or NOAA for example. The Data Sources are specialized to describe the different ways that predictions are obtained.

**Entity Name:** PIDataTypeCatalogue

Category: Object Class

This class describes a collection that lists the data types that may be generated by the production system. The class is constructed from the PIDataTypes class using the catalogue category attribute from that class.

**Entity Name:** PIDataType

Category: Object Class

This class describes a data type known to the planning subsystem. This is a description of an input or output type, distinct to a granule or instance of the data type. The class is an abstraction or proxy that describes one of the Data Server ESDTs. The class captures data and operations that are required to subscribe and receive notification from the Data Server when a new instance of the Data Type arrives.

**Entity Name:** PIDataTypeReq

Category: Object Class

This class contains the data that associates a PGE to an input data type.

**Entity Name:** PIDataTypes

Category: Object Class

The class provides for a collection of Data Type objects selected from the PDPS database and suitable services to iterate over the collection. The class will be implemented using a suitable collection class from Rogue Wave.

**Entity Name:** PIDBMSProxyAgentCallbacks

Category: Object Class

Specialization class to provide the DBMS proxy agent callbacks to the MsManager in order to be activated for the appropriate lifecycle services (shutdown, resume, suspend notify).

**Entity Name:** PIDBMSProxyAgent

Category: Object Class

This class describes the main body for the proxy agent required to manage the lifecycle services of the PDPS DBMS. The proxy agent will be an almost template re-use of the MSS capabilities.

**Entity Name:** PIDiskPartition

Category: Object Class

This class describes the disk resources for data production

**Entity Name:** PIDpr

Category: Object Class

**Entity Name:** PIDPR

Category: Object Class

This class describes an individual run of a PGE.

**Entity Name:** PIDPRs

Category: Object Class

This is a collector class for the PIDPR class, and contains methods to select Data Processing Requests from the PDPS database and to iterate through them. This class may be implemented by a suitable Rogue Wave template class.

**Entity Name:** PIFOSPredictedArrival

Category: Object Class

This object will not be developed for the TRMM release, it is shown as a placeholder for AM-1 when the data availability prediction may be built from the FOS APS schedules

**Entity Name:** PIGroundActivity

Category: Object Class

This class is a generalization of the PIActivity class. The class describes a Ground Event within the plan.

**Entity Name:** PIGroundEvent

Category: Object Class

This class describes a Ground Event which is recorded in the PDPS database. A Ground Event marks the allocation of resources to some none-production task such as maintainance.

**Entity Name:** PIGroundEvents

Category: Object Class

This is a collector class for the PIGroundEvent class, and contains methods to select Ground Events from the PDPS database and to iterate through them. This class may be implemented by a suitable Rogue Wave template class

**Entity Name:** PIOutputYield

Category: Object Class

Specifies the recipe to describe the output data granules for a PGE.

**Entity Name:** PIPerformance

Category: Object Class

This class describes the performance statistics of a PGE. These performance statistics are established at AI&T. The class also contains attributes to describe the statistics updated from the Data Processing subsystem.

**Entity Name:** PIPGEActivity

Category: Object Class

This class is a generalization of the PIActivity class. The class describes a Data Processing Request - a run of a PGE - within the plan.

**Entity Name:** PIPge

Category: Object Class

**Entity Name:** PIPGE

Category: Object Class

This is the base class within a generalization heirachy that describes PGEs. The class defines abstract operations required for the planning subsystem to work out when a PGE needs to be scheduled. As well as containing the key attributes defining the PGE.

**Entity Name:** PIPGEProfile

Category: Object Class

This class describes the collection of information that describes a PGE to the Planning subsystem.

**Entity Name:** PIPlanASCIIReportFile

Category: Object Class

This class represents an ascii readable externalized report format of the plan. The precise format of this report is TBD. The report will provide a summary view of the tasks planned (no. of particular product types generated within the plan period) as well as a prediction of the generation time for each product.

**Entity Name:** PIPlanBinaryReportFile

Category: Object Class

This class represents an electronic parsable report format of the plan. The precise format of this report is TBD. The report will provide a summary view of the tasks planned (no. of particular product types generated within the plan period) as well as a prediction of the generation time for each product.

**Entity Name:** PIPlan

Category: Object Class

This class represents an abstraction for a production plan. The class describes the metadata that will be stored for a plan within the PDPS database. The operations shown are an abstraction for those used within the planning framework.

**Entity Name:** PIPlanGenerationUI

Category: Object Class

This class is an abstraction for the user interface to the planning workbench application. The class shows the functions available to the production scheduler in support of generating a plan

**Entity Name:** PIPlanMetadataFile

Category: Object Class

This class represents the metadata that will be used to describe the plan within the Document Data Server. The format of this report will be a Parameter=Value list line separated.

**Entity Name:** PIPlanningWorkbenchUI

Category: Object Class

This class is an abstraction for the user interface to the planning workbench application. The interface will be developed with a suitable GUI builder tool.

**Entity Name:** PIProductionPlannersUI

Category: Object Class

This class is an abstraction for the user interface to the planning workbench application. The interface will be developed with a suitable GUI builder tool. The class does describe the basic operations that are provided from the interface.

**Entity Name:** PIProductionRequest

Category: Object Class

A production request describes an order for data sets, a production request typically specifies a request for a Data Set to be produced for an extended period of time (e.g a month's worth of some product).

**Entity Name:** PIProductionRequestUI

Category: Object Class

This class is an abstraction for the user interface to the production request editor application.

**Entity Name:** PIPublishedPlan

Category: Object Class

This object encapsulates the methods required to insert externalized formats of the plan into the document data server

**Entity Name:** PIPublishScript

Category: Object Class

This class depicts the script required to send a message to a preprepared list of users when a new plan is published.

**Entity Name:** PIResource

Category: Object Class

This class is the base class in a generalization heirachy describing the production resource.

**Entity Name:** PIResourceConfigiration

Category: Object Class

This class describes the resource configuration of the Production Resources.

**Entity Name:** PIResourceManager

Category: Object Class

This class represents an abstraction for the resource management capabilities used when generating a plan, describing the operations required to match resource requirements of an activity to the available resources, and to allocate the resource for the activity.

**Entity Name:** PIResourceManagersUI

Category: Object Class

This class is an abstraction for the user interface to the planning workbench application. The class presents the functions that are available to the resource manager role.

**Entity Name:** PIResourceRequirement

Category: Object Class

This class contains a description of the resource requirements of a PGE, which may be matched against the resource configuration known to the Planning subsystem.

**Entity Name:** PIResourceUI

Category: Object Class

**Entity Name:** PIRoutineArrival

Category: Object Class

This class is a specialization of the PIDataSource class and describes the most frequent method for predicting data arrivals within the ECS (at least for the TRMM data sets). This class contains the attributes and operations required to describe routine ingest of external data.

**Entity Name:** PIScheduledArrival

Category: Object Class

This class implements another method that predicts data granule arrivals based on an external schedule from another site. This specialization is not required for the TRMM release.

**Entity Name:** PIString

Category: Object Class

A string describes the logical collection of a number of resources allocated for an instruments processing needs

**Entity Name:** PISubscriptionManagerCallbacks

Category: Object Class

Specialization class to provide the subscription manager callbacks to the MsManager in order to be activated for the appropriate lifecycle services (shutdown, resume, suspend notify).



**Entity Name:** PISubscriptionManager

Category: Object Class

This class contains the main application methods associated with the subscription manager application

**Entity Name:** PISubscriptionSubmitIF

Category: Object Class

This class is an abstraction for the user interface to the subscription submission application. The interface will be developed with a suitable GUI building tool.

**Entity Name:** PTimeLineDisplay

Category: Object Class

This class describes the user interface component that represents the graphical display of a plan. This will be implemented by a COTS or re-use component.

**Entity Name:** PTimeScheduled

Category: Object Class

This specialization of the PGE accounts for the classification of PGEs whereby the PGE scheduling is determined from some regular time period, such as an hour, a day, a week, a month etc.

**Entity Name:** PIUser

Category: Object Class

This class describes the privileges associated with a user.

**Entity Name:** PIUserParameters

Category: Object Class

Describes any user defined parameters that are associated to a PGE.

**Entity Name:** PrPcf

Category: Object Class

**Entity Name:** PrPge

Category: Object Class

**Entity Name:** Pthread

Category: Object Class

A Pthread is the representation of a thread of execution. A DCEPthread object corresponds to a single thread. The DCEPthread class provides limited information about a thread and limited control of that thread. A DCEPthread object represents the thread before, during, and after its execution. The thread may also continue to execute after the DCEPthread object has been deleted.

**Entity Name:** PthreadCond

Category: Object Class

The PthreadCond class encapsulates the pthread\_cond\_t condition type. A mutex is associated with the PthreadCond when it is constructed.

**Entity Name:** PthreadInterval

Category: Object Class

The PthreadInterval class represents a time interval. This is used in several of the Pthread calls. Time intervals are distinguished from actual time (PthreadTime). Conversions may need to take place between time and interval, depending on the specific needs of a pthread intrinsic.

**Entity Name:** PthreadMutex

Category: Object Class

The PthreadMutex class provides the fundamental locking mechanism.

**Entity Name:** PthreadTime

Category: Object Class

This class represents an actual time, as contrasted with a time interval represented by PthreadInterval. This class inherits timespec, as defined in pthread.h. The fields of this struct are publicly available. However, operations (including conversions) are preferable to direct use of timespec fields. The default copy constructor and assignment operator are available for use with this type.

**Entity Name:** Report

Category: Object Class

To format and produce a variety of ad-hoc and canned reports.

**Entity Name:** ResourceChangeRequest

Category: Object Class

This class provides a capability to maintain records that describe and status proposed changes to ECS resources.

**Entity Name:** ResourceChangeRequestReport

Category: Object Class

This class provides the capability to retrieve and format change request details and metrics for display, storing, or printout.

**Entity Name:** ResourceProfile

Category: Object Class

This class provides a capability to maintain key, technical information about deployed hardware and software resources that both identifies and characterizes them.

**Entity Name:** rgy\_edit

Category: Object Class

This is a GUI utility used to crete and maintain user accounts.

**Entity Name:** RouterACLs

Category: Object Class

This class represents router access control lists, used to filter incoming and outgoing packets based on the access control rules rules specified. This is a COTS product, and will not be described in detail here. The reader is referred to the appropriate documentation for details.

**Entity Name:** RWFile

Category: Object Class

Rogue Wave class which encapsulates binary file operations using the Standard C stream library.

**Entity Name:** RWPtrDlist

Category: Object Class

Rogue Wave class which maintains a collection of pointers to type T, implemented as a doubly linked list. This is a pointer based list: pointers to objects are copied in and out of the links that make up the list.

**Entity Name:** RWTPtrOrderedVector

Category: Object Class

This is a COTS class from the Rogue Wave library that can be used to implement ordered lists of objects. It is a template that can be instantiated over any class that implements the == operator.

**Entity Name:** Security

Category: Object Class

Implementation of the Security Service.

**Entity Name:** SoftwareChangeManager

Category: Object Class

This class is a server manager that controls a software library and manages the execution of operator initiated events associated with it.

**Entity Name:** SoftwareChangeReport

Category: Object Class

This class provides the capability to format and order selected, software library data for display, storing, or printout.

**Entity Name:** SoftwareControlItem

Category: Object Class

This class is a specialization of the ResourceProfile class. It provides a capability to identify and characterize individual, deployed software items.

**Entity Name:** SoftwareLibrary

Category: Object Class

This class provides the capability to organize and manage the physical placement of collections of files containing ECS custom software, scientific software, and associated test data, control data, and documentation.

**Entity Name:** SoftwareTrap

Category: Object Class

This class represents traps generated by the Management Agent Services for faults events detected in ECS applications, or faults reported by ECS applications.

**Entity Name:** strstream

Category: Object Class

standard c++ class

**Entity Name:** Subsystem

Category: Object Class

This class is a specialization of the ResourceProfile class. It provides a capability to identify and characterize individual, deployed subsystems and the configured devices that comprise each.

**Entity Name:** TCPWrapperConfig

Category: Object Class

This class represents the configuration files of TCP Wrappers used to control access to network services on a host. This control is established through access rules specified for the various network services. This is the customization of the COTS required. Since this functionality is provided by COTS, it will not be described in detail here. The reader is referred to the appropriate COTS documentation for details.

**Entity Name:** ThisPthread

Category: Object Class

ThisPthread is a reference to the current running thread. It is derived from Pthread. However, an object of type ThisPthread should never be referenced as a Pthread since the destructor has not been made virtual, and use of the Join and Stacksize member functions is disallowed.

**Entity Name:** Toolkit

Category: Object Class

This class is a specialization of the ResourceProfile class. It provides a capability to identify and characterize versions of ECS toolkits. It also identifies the ECS devices on which each toolkit resides.

**Entity Name:** V0ServerBackEnd

Category: Object Class

The V0ServerBackEnd is an OTS package provided by the V0 IMS Server.

**Entity Name:** V0ServerFrontEnd

Category: Object Class

The V0ServerFrontEnd is an OTS package provided by the V0 IMS Server.

**Entity Name:** View

Category: Object Class

This class maintains sets of specifications operators use to select the version of library objects on which to work.

**Entity Name:** X.500

Category: Object Class

Implementation of X.500

### **3.2 Attributes**

**Entity Name:** \$DsCdASCII\_List

Category: Attribute

Object Class: DsCdASCII

**Entity Name:** \$DsCtInsertCommandList

Category: Attribute

Object Class: DsCtInsertCommand

**Entity Name:** \$myCacheConfig

Category: Attribute

Object Class: DsStPullMonitor

This attribute identifies the configuration file for the disk area designated as the "pull" area for electronically distributed files.

**Entity Name:** \$myCacheConfig

Category: Attribute

Object Class: DsStStagingMonitor

This attribute identifies the configuration file for the staging disk cache.

**Entity Name:** \$myClientList

Category: Attribute

Object Class: DsCtClient

List of active clients.

**Entity Name:** \$myCommandList

Category: Attribute

Object Class: DsCtCommand

List of all active commands

**Entity Name:** \$myDeviceTable

Category: Attribute

Object Class: DsStResourcePolicy

This attribute identifies the table of projected device use times for each type of resource (excepting those resources which are not allocated or reserved).

**Entity Name:** \$myDsCdCSDDLList

Category: Attribute

Object Class: DsCdCSDT

**Entity Name:** \$myDsCdHTML\_List

Category: Attribute

Object Class: DsCdHTML

**Entity Name:** \$myDsCdKeywList

Category: Attribute

Object Class: DsCdKeyword

**Entity Name:** \$myDsCdKeywordLocationList

Category: Attribute

Object Class: DsCdKeywordLocator

**Entity Name:** \$myDsCdPDF\_List

Category: Attribute

Object Class: DsCdPDF

**Entity Name:** \$myDsCdPostScript\_List

Category: Attribute

Object Class: DsCdPostScript

**Entity Name:** \$myDsCdRTF\_List

Category: Attribute

Object Class: DsCdRTF

**Entity Name:** \$myDsCtAcquireCommand

Category: Attribute

Object Class: DsCtAcquireCommand

List of all active acquire commands. Used mainly for fault recovery and memory management.



**Entity Name:** \$myDsCtSearchCommandList

Category: Attribute

Object Class: DsCtSearchcommand

**Entity Name:** \$myDsEsESDTList

Category: Attribute

Object Class: DsEsESDT

**Entity Name:** \$myDsEsRefPapTy

Category: Attribute

Object Class: DsEsReferencePaperTypeID

List of the currently active objects. Mainly used for fault recovery and memory management.

**Entity Name:** \$myList

Category: Attribute

Object Class: DsEsProductionPlanTypeID

List of currently active objects mainly used for fault recovery and memory management.

**Entity Name:** \$myPolicyConfig

Category: Attribute

Object Class: DsStResourcePolicy

This attribute identifies persistent policy configuration information for each type of resource.

**Entity Name:** \$myRequestList

Category: Attribute

Object Class: DsCtRequest

List of currently active requests. Used for fault recovery and memory management.

**Entity Name:** \$mySchedulingConfig

Category: Attribute

Object Class: DsStResourceSchedule

**Entity Name:** \$myServerList

Category: Attribute

Object Class: DsSvServer

List of currently active servers. Used for fault recovery and memory management.

**Entity Name:** \_activator

Category: Attribute

Object Class: ESO

Activation object (optional)

**Entity Name:** \_addr

Category: Attribute

Object Class: EcDcDSyncCom

This attribute points to some address that the developer will use in the overridden Invoke member function. It is a void pointer and it could be a port number, an IP, a binding, an object reference, a CDS name, etc.

**Entity Name:** \_attempt\_rebind

Category: Attribute

Object Class: DCEInterface

rebind policy

**Entity Name:** \_auth\_arg\_val

Category: Attribute

Object Class: ESO

KeyTab file arg

**Entity Name:** \_auth\_identity

Category: Attribute

Object Class: DCEInterface

Identity

**Entity Name:** \_auth\_obj

Category: Attribute

Object Class: ESO

Authorizer for management functions

**Entity Name:** \_authentication\_service\_type

Category: Attribute

Object Class: ESO

Authn server type

**Entity Name:** \_authn\_svc

Category: Attribute

Object Class: DCEInterface

Authentication

**Entity Name:** \_authz\_svc

Category: Attribute

Object Class: DCEInterface

Authorization

**Entity Name:** \_cacheListP

Category: Attribute

Object Class: EcMpMsgPsngCtrl

This attribute is a two dimensional array of a hash table containing a list of pairs, an application name and the corresponding proxy object it is pointing to. The pair gets removed from the list when we find out that the server is no longer listening.

**Entity Name:** \_call\_in\_progress

Category: Attribute

Object Class: EcDcDSyncCom

This attribute holds a value that identifies whether a thread is currently executing or not. This flag is used to assure that only one call is processed at a time, and that we don't have multiple Send calls happening concurrently. Only one thread will be running at a time.

**Entity Name:** \_CBP

Category: Attribute

Object Class: EcMpQueueCbIn

This attribute represents a callback pointer.

**Entity Name:** \_cds\_entry

Category: Attribute

Object Class: DCEInterface

CDS name

**Entity Name:** \_database

Category: Attribute

Object Class: ECSSecurity

This attribute represents the database where the ACLS are stored.

**Entity Name:** \_data

Category: Attribute

Object Class: EcDcDSyncCom

This attribute points to some data that the developer will use in the overridden invoke member function. It is a void pointer.

**Entity Name:** \_description

Category: Attribute

Object Class: ESO

Text description

**Entity Name:** \_done

Category: Attribute

Object Class: EcDcDSyncCom

This attribute holds a value that identifies whether a thread has terminated or not. It gets updated when the process finished execution, after PostInvoke. '0' means the thread did not finish, '1' means it did.

**Entity Name:** \_endpoints\_registered

Category: Attribute

Object Class: ESO

Flag, are the endpoints registered

**Entity Name:** \_exports

Category: Attribute

Object Class: ESO

List of Interfaces for export

**Entity Name:** \_free\_list

Category: Attribute

Object Class: ESO

List of Interfaces for deletion

**Entity Name:** \_group

Category: Attribute

Object Class: ESO

Optional CDS group

**Entity Name:** \_handle

Category: Attribute

Object Class: DCEInterface

Binding handle

**Entity Name:** \_if\_handle

Category: Attribute

Object Class: DCEInterface

DCEInterface

**Entity Name:** \_if\_impl\_mgr

Category: Attribute  
Object Class: DCEInterfaceMgr  
C Manager epv for DCE

**Entity Name:** \_Init

Category: Attribute  
Object Class: ESO  
One time init flag

**Entity Name:** \_interface\_registered

Category: Attribute  
Object Class: ESO  
Flag, are interfaces registered with runtime

**Entity Name:** \_interfaces

Category: Attribute  
Object Class: ESO  
List of interfaces

**Entity Name:** \_interfaceUuid

Category: Attribute  
Object Class: EcMpMsgPsngCtrl  
This attribute represents an interface uuid.

**Entity Name:** \_key\_retrieval\_obj

Category: Attribute  
Object Class: ESO  
Key retriever object

**Entity Name:** \_local

Category: Attribute  
Object Class: DCEInterface  
local object

**Entity Name:** \_max\_call\_requests

Category: Attribute  
Object Class: ESO  
Maximum number of concurrent calls

**Entity Name:** \_no\_of\_retries

Category: Attribute  
Object Class: EcDcDSyncCom  
This attribute defines the number of Send call re-tries if exceptions or errors occur during the communication.

**Entity Name:** \_NoOfTries

Category: Attribute  
Object Class: EcMpSessionList  
Number of tries in case of communication errors.

**Entity Name:** \_object

Category: Attribute  
Object Class: DCEInterface  
Object UUID

**Entity Name:** \_objects

Category: Attribute  
Object Class: ESO  
List of server objects

**Entity Name:** \_objUuid

Category: Attribute

Object Class: EcMpMsgPsngCtrl

This attribute represents an object uuid.

**Entity Name:** \_policy

Category: Attribute

Object Class: EcDcDSyncCom

This attribute represents the thread scheduling policy. It is an enum type. The policy types are: EcDDcFifo (first in/first out), EcDDcRr (Round Robin), EcDDcFg (Foreground), EcDDcBg (Background).

**Entity Name:** \_priority

Category: Attribute

Object Class: EcDcDSyncCom

This attribute represents the thread scheduling priority. It is an enum type. The priority types are: EcDDcPri\_min, EcDDcPri\_low, EcDDcPri\_mid, EcDDcPri\_hi, EcDDcPri\_max.

**Entity Name:** \_profile\_prio

Category: Attribute

Object Class: ESO

Profile priority

**Entity Name:** \_profile

Category: Attribute

Object Class: ESO

Optional CDS profile

**Entity Name:** \_protection\_level

Category: Attribute

Object Class: DCEInterface

Data security



**Entity Name:** \_protocols\_registered

Category: Attribute

Object Class: ESO

Flag, are protocols registered

**Entity Name:** \_protocols

Category: Attribute

Object Class: ESO

List of protocol sequences

**Entity Name:** \_ps

Category: Attribute

Object Class: DCEAclSchema

This attribute represents all the private state in it.

**Entity Name:** \_QueueItems

Category: Attribute

Object Class: EcMpQueueCbIn

This attribute represents a queue item type.

**Entity Name:** \_QueueItems

Category: Attribute

Object Class: EcMpQueueIn

This attribute represents a queue item type.

**Entity Name:** \_QueueItems

Category: Attribute

Object Class: EcMpQueueOut

This attribute represents a queue item type.

**Entity Name:** \_reaper

Category: Attribute  
Object Class: ESO  
Cleanup thread

**Entity Name:** \_rebind\_count

Category: Attribute  
Object Class: DCEInterface  
Number of attempts to make

**Entity Name:** \_reference

Category: Attribute  
Object Class: DCEInterface  
object reference

**Entity Name:** \_results

Category: Attribute  
Object Class: EcDcDSyncCom  
This attribute is used to store the results that were a product of the thread execution. It is a void pointer.

**Entity Name:** \_schema

Category: Attribute  
Object Class: ECSSecurity  
This attribute represents a defined permission set to be used in any acl entry.

**Entity Name:** \_sec\_pref\_changed

Category: Attribute  
Object Class: DCEInterface  
Flag

**Entity Name:** \_servent

Category: Attribute  
Object Class: ESO  
CDS server entry

**Entity Name:** \_server\_cache

Category: Attribute  
Object Class: DCEInterface  
DCEBinding cache

**Entity Name:** \_server\_is\_listening

Category: Attribute  
Object Class: ESO  
Flag, is server object listen loop

**Entity Name:** \_server\_is\_registered

Category: Attribute  
Object Class: ESO  
Flag, is server registered in CDS

**Entity Name:** \_server\_lock

Category: Attribute  
Object Class: ESO  
Main Mutex for DCEServer class

**Entity Name:** \_server\_principal\_name

Category: Attribute  
Object Class: DCEInterface  
DCEServer principal

**Entity Name:** \_server\_principal\_name

Category: Attribute

Object Class: ESO

Principal name

**Entity Name:** \_service\_bound

Category: Attribute

Object Class: DCEInterface

Flag

**Entity Name:** \_set\_security

Category: Attribute

Object Class: DCEInterface

Flag

**Entity Name:** \_theMsgPsngCtrlP

Category: Attribute

Object Class: EcMpMsgPsngCtrl

This attribute is a pointer to the EcMpMsgPsngCtrl object, a global one.

**Entity Name:** \_timeBetweenRetries

Category: Attribute

Object Class: EcDcDSyncCom

This attribute defines how often Send call re-tries will occur in case of errors during the communication.

**Entity Name:** \_timeBetweenTries

Category: Attribute

Object Class: EcMpSessionList

Number of seconds between tries.

**Entity Name:** \_TransferSrvP

Category: Attribute

Object Class: EcMpQueue

This attribute represents a pointer to the EcMpTransferSrv object.

**Entity Name:** \_use\_protocols

Category: Attribute

Object Class: ESO

Protocol registration policy

**Entity Name:** absoluteTimeList

Category: Attribute

Object Class: MsMdConfigurationEntry

**Entity Name:** AccessConstraints

Category: Attribute

Object Class: DmGwDataCollection

Descriptive notes about any access restrictions on the data collection.

**Entity Name:** Action\_Name

Category: Attribute

Object Class: ClDtActions

Name of the action

**Entity Name:** activeRequestList

Category: Attribute

Object Class: DmGwRequestList

stores the collection of active DmGwV0Request objects.

**Entity Name:** addedResources

Category: Attribute

Object Class: BaselineChange

This attribute represents the list of the resources included in a baseline that were not in its predecessor.

**Entity Name:** agentAddr

Category: Attribute

Object Class: MsTrap

This attribute specifies the IP address of the managed object where the trap originated.

**Entity Name:** ApplName

Category: Attribute

Object Class: CIDtApplicationObject

Name of Application Object

**Entity Name:** ApplObjType

Category: Attribute

Object Class: CIDtApplicationObject

Type of Application Object

**Entity Name:** appName

Category: Attribute

Object Class: EcAgEvent

This attribute represents the name of the application.

**Entity Name:** approvalDate

Category: Attribute

Object Class: BaselineProfile

This attribute represents the date a baseline is formally sanctioned by an approval authority.

**Entity Name:** approvalDate

Category: Attribute

Object Class: ResourceChangeRequest

This attribute represents the date a final decision was made concerning a proposed system change.

**Entity Name:** approvalOfficial

Category: Attribute

Object Class: ResourceChangeRequest

This attribute is the name of the individual whose decision is reflected in the proposed change's disposition.

**Entity Name:** assignedRE

Category: Attribute

Object Class: ResourceChangeRequest

This attribute represents the responsible engineer designated to analyze and/or implement a proposed system change.

**Entity Name:** assignedToId

Category: Attribute

Object Class: MsTtEntry

the user id of the support staff member working this problem

**Entity Name:** assignToName

Category: Attribute

Object Class: MsTtEntry

the name of the support staff member working this problem

**Entity Name:** attitude

Category: Attribute

Object Class: DpPpAttitudePacket

The euler angles and rates.

**Entity Name:** attitudePackets

Category: Attribute

Object Class: DpPpAttitudeProcessingSet

The set of attitude packets in the data quality processing queue.

**Entity Name:** attr\_name

Category: Attribute

Object Class: EcDnAttribute

Attribute name

**Entity Name:** attr\_obj

Category: Attribute

Object Class: EcDnElement

Attribute object.

**Entity Name:** attr\_type

Category: Attribute

Object Class: EcDnAttribute

Attribute type.

**Entity Name:** attributeObjectID

Category: Attribute

Object Class: MsPmList

This represents a specific performance parameter as a sequence of integers to correspond to the location of the parameter in the MIB tree structure.

**Entity Name:** attributePollingInterval

Category: Attribute

Object Class: MsPmList

This attribute specifies the time interval with which the ManagementFramework should poll the managed object for this attribute.



**Entity Name:** AttributesToReturn

Category: Attribute

Object Class: DsCIQuery

This attribute represents the projection of the query (i.e. the "select" clause from an SQL statement). It is implemented as a GIParameterList because it has additional usage in the "inspecting" of the results of the query.

**Entity Name:** attributeThreshold

Category: Attribute

Object Class: MsPmList

This attribute specifies the value which, if exceeded, should result in an alert being generated.

**Entity Name:** boxcarWindowSize

Category: Attribute

Object Class: DpPpQaParameters

The number of ephemeris point to be included in the boxcar averaging window used to detect spikes in the ephemeris data.

**Entity Name:** buildOptions

Category: Attribute

Object Class: BuildRecord

This attribute represents the collection of information about management options invoked in executing the build.

**Entity Name:** buildScript

Category: Attribute

Object Class: BuildRecord

This attribute represents the listing of the text in a build script.

**Entity Name:** CampaignName

Category: Attribute

Object Class: DmGwFieldCampaign

Name of the campaign the data collection is associated with.

**Entity Name:** CcbAssigned

Category: Attribute

Object Class: ResourceChangeRequest

This attribute represents the name of a configuration control board having authority to approve the resource change request.

**Entity Name:** cell\_flag

Category: Attribute

Object Class: EcDnContext

Flag, 0 = global root name (/...), 1 = cell root name (/./)

**Entity Name:** cellName

Category: Attribute

Object Class: EcAgEvent

This attribute represents the name of the DCE cell to where this host belongs.

**Entity Name:** changeNotices

Category: Attribute

Object Class: DocumentProfile

This attribute represents the list of document change notices included in the current edition of a document.

**Entity Name:** changeRequestID

Category: Attribute

Object Class: LibraryFile

This attribute represents the collection of resource change request identifiers used in authorizing checkin of a new library file.

**Entity Name:** characteristics List

Category: Attribute

Object Class: ResourceProfile

This attribute represents the collection of information describing key aspects of a profiled resource's configuration.

**Entity Name:** checkoutStatus

Category: Attribute

Object Class: LibraryFile

This attribute represents the code that identifies whether or not a library file is in the process of being modified.

**Entity Name:** checksum

Category: Attribute

Object Class: LibraryFile

This attribute represents the sum of the number of bits in a library file.

**Entity Name:** CIsAffected

Category: Attribute

Object Class: ResourceChangeRequest

This attribute represents the list of the configuration items whose configuration is affected by a proposed system change.

**Entity Name:** class

Category: Attribute

Object Class: ResourceChangeRequest

This attribute is the classification that distinguishes change requests according to management level needed for approval.

**Entity Name:** ClientID

Category: Attribute

Object Class: InSessionInfo

The identifier of the external client.

**Entity Name:** closeCode

Category: Attribute

Object Class: MsTtEntry

a code indicating the type of resolution, valid values include but are not limited to : Software Bug  
Fix Hardware Replaced No Problem Found Sent to CCR Duplicate Trouble Ticket

**Entity Name:** closeDate

Category: Attribute

Object Class: MsTtEntry

the date the trouble ticket was closed

**Entity Name:** closeDescription

Category: Attribute

Object Class: MsTtEntry

a detailed description of the resolution of this problem

**Entity Name:** CollectionDescription

Category: Attribute

Object Class: DmGwDataCollection

Brief description of the data collection

**Entity Name:** CollectionName

Category: Attribute

Object Class: DmGwDataCollection

Name of the data collection which is same as V0 DATASET\_ID

**Entity Name:** composite\_name

Category: Attribute

Object Class: EcDnCompositeName

Nested set of contexts.

**Entity Name:** comression

Category: Attribute

Object Class: MsMdAggregateLogFile

The flag to indicate if files have been compressed prior to archival

**Entity Name:** ConObjName

Category: Attribute

Object Class: CIDtContainerObject

Name of the container object

**Entity Name:** Constraints

Category: Attribute

Object Class: DsCIQuery

This attribute represents the constraints of a query (i.e. the "where" clause of an SQL statement).

**Entity Name:** contactAddress

Category: Attribute

Object Class: MsMdAggregateLogFile

The address of the contact person

**Entity Name:** contactName

Category: Attribute

Object Class: MsMdAggregateLogFile

The name of the contact person requesting data archiving

**Entity Name:** contents

Category: Attribute

Object Class: BaselineManagementReport

This attribute represents the data compiled and presented in a report.

**Entity Name:** contents

Category: Attribute

Object Class: LibraryFile

This attribute represents the collection of data stored in a library file.

**Entity Name:** contents

Category: Attribute

Object Class: ResourceChangeRequestReport

This attribute represents the data compiled and presented in a report.

**Entity Name:** contents

Category: Attribute

Object Class: SoftwareChangeReport

This attribute represents the data compiled and presented in a report.

**Entity Name:** ContObjType

Category: Attribute

Object Class: CIDtContainerObject

Type of container objects (for ex. directory)

**Entity Name:** currentEphemerisRecord

Category: Attribute

Object Class: DpPpEphemerisRecords

The current ephemeris record undergoing data quality processing.

**Entity Name:** currentEphemerisRecord

Category: Attribute

Object Class: DpPpFdfProcessingSet

The ephemeris record currently being processed; processing can include reformatting, data quality checking and appending to the ephemeris dataset.

**Entity Name:** currentPacket

Category: Attribute

Object Class: DpPpAttitudePackets

The current attitude packet undergoing data quality processing.

**Entity Name:** currentPacket

Category: Attribute

Object Class: DpPpAttitudeProcessingSet

The attitude packet currently being processed; processing includes reformatting, data quality checking and appending to the attitude dataset.

**Entity Name:** DANGenerationTime

Category: Attribute

Object Class: MsMdAggregateLogFile

The ISO time of DAN generation

**Entity Name:** DANSeqNum

Category: Attribute

Object Class: InRequestInfo

DAN Sequence number associated with the request.

**Entity Name:** databaseLoadTime

Category: Attribute

Object Class: MsMdConfigurationList

the time of day the aggregate log files should be processed and loaded to the Management

**Entity Name:** dataOriginatorSysId

Category: Attribute

Object Class: MsMdAggregateLogFile

Id of Data Originator

**Entity Name:** DataTypeSelectionWindow

Category: Attribute

Object Class: PlSubscriptionSubmitIF

**Entity Name:** date

Category: Attribute

Object Class: BaselineManagementReport

This attribute represents the date a report is effective.

**Entity Name:** date

Category: Attribute

Object Class: CmBmCotsLog

This attribute represents the date on which an event occurred.

**Entity Name:** date

Category: Attribute

Object Class: CmScmCotsLog

This attribute represents the date on which an event occurred.

**Entity Name:** date

Category: Attribute

Object Class: ResourceChangeRequestReport

This attribute represents the date a report is effective.

**Entity Name:** date

Category: Attribute

Object Class: SoftwareChangeReport

This attribute represents the date a report is effective.

**Entity Name:** DayNightFlag

Category: Attribute

Object Class: DmGwDataCollection

This flag indicates whether or not the data collection is completely either day or night



**Entity Name:** deletedResources

Category: Attribute

Object Class: BaselineChange

This attribute represents the list of the resources not in a baseline that were in its predecessor.

**Entity Name:** DeltaValue

Category: Attribute

Object Class: EcTiTimeService

Delta value maintained as binary timestamp

**Entity Name:** description

Category: Attribute

Object Class: CmBmCotsLog

This attribute represents the narrative that explains the nature of an event.

**Entity Name:** description

Category: Attribute

Object Class: CmCrmCotsLog

This attribute represents the narrative that explains the nature of an event.

**Entity Name:** description

Category: Attribute

Object Class: CmScmCotsLog

This attribute represents the narrative that explains the nature of an event.

**Entity Name:** destination

Category: Attribute

Object Class: BaselineManagementReport

This attribute represents the device to which a report is sent.

**Entity Name:** destination

Category: Attribute

Object Class: ResourceChangeRequestReport

This attribute represents a device to which a report is sent.

**Entity Name:** destination

Category: Attribute

Object Class: SoftwareChangeReport

This attribute represents the device to which a report is sent.

**Entity Name:** developer

Category: Attribute

Object Class: SoftwareControlItem

This attribute represents the organization that developed the profiled resource.

**Entity Name:** diary

Category: Attribute

Object Class: MsTtEntry

entries made by the support staff members which describe the steps taken through the lifecycle of the trouble ticket

**Entity Name:** directoryId

Category: Attribute

Object Class: MsMdAggregateLogFile

The path and address of the directory where the files are located

**Entity Name:** DirectoryPath

Category: Attribute

Object Class: CIDtDesktopWindow

Gives the Directory path of the Desktop Window

**Entity Name:** DirectoryPath

Category: Attribute

Object Class: ClDtIconic

Directory Path to be displayed in the desktop.

**Entity Name:** disposition

Category: Attribute

Object Class: EcAgEvent

This attribute represents the disposition of the application.

**Entity Name:** disposition

Category: Attribute

Object Class: ResourceChangeRequest

This attribute represents the final decision made by a designated approval official concerning a proposed system change.

**Entity Name:** DNNSeqNumber

Category: Attribute

Object Class: MsMdAggregateLogFile

The sequence number of DAN assigned by Data Server and subsequently used by MSS for data retrieval requests.

**Entity Name:** DocObjName

Category: Attribute

Object Class: ClDtDocumentObject

Name of Document Object

**Entity Name:** DocObjType

Category: Attribute

Object Class: ClDtDocumentObject

Type of Document Object

**Entity Name:** docsAffected

Category: Attribute

Object Class: ResourceChangeRequest

This attribute represents the list of the system documents affected by a proposed system change.

**Entity Name:** DRRSeqNum

Category: Attribute

Object Class: MsMdAggregateLogFile

The Data Retrieval Request number sent to data server when requesting data retrieval from the archives

**Entity Name:** DtObjType

Category: Attribute

Object Class: CIDtDesktop\_Object

Type of Desktop Object...

**Entity Name:** EastBoundingCoordinate

Category: Attribute

Object Class: DmGwBoundingCoordinates

Easternmost longitude of the data collection spatial coverage.

**Entity Name:** EcRWCtxListP

Category: Attribute

Object Class: EcDnCompositeName

RW Linked list of immediate subordinates

**Entity Name:** EcRWElementListP

Category: Attribute

Object Class: EcDnCompositeName

RW linked list of elements

**Entity Name:** EcRWValueListP

Category: Attribute

Object Class: EcDnElement

RW list of value objects

**Entity Name:** ECSValue

Category: Attribute

Object Class: DmGwMap

ECS term

**Entity Name:** effectiveDate

Category: Attribute

Object Class: BaselineProfile

This attribute represents the date a baseline is placed in production.

**Entity Name:** emailAddr

Category: Attribute

Object Class: MsAcGuestUserReq

This attribute represents the electronic mail address of the user.

**Entity Name:** emailAddr

Category: Attribute

Object Class: MsUsProfile

This attribute represents the the electronic mail address of the user.

**Entity Name:** emailAddress

Category: Attribute

Object Class: MsMdAggregateLogFile

The e-mail address of the contact person

**Entity Name:** endTime

Category: Attribute

Object Class: MsMdAggregateLogFile

the ending time of the period covered by the aggregate

**Entity Name:** enterpriseId

Category: Attribute

Object Class: MsTrap

This attribute specifies the ECS enterprise identification ID. This is represented in dot notation.

**Entity Name:** entryDate

Category: Attribute

Object Class: MsTtEntry

the entry date into system (submit date)

**Entity Name:** entryId

Category: Attribute

Object Class: MsTtEntry

the unique identifier (generated by MsTtManager, unique prefix for each DAAC)

**Entity Name:** ephemeris

Category: Attribute

Object Class: DpPpEphemerisRecord

The satellite position and velocity vectors.

**Entity Name:** ephemerisRecords

Category: Attribute

Object Class: DpPpEphemRecord

The set of ephemeris data parsed from a single FDF ephemeris record.

**Entity Name:** ephemerisRecords

Category: Attribute

Object Class: DpPpFdfProcessingSet

The set of ephemeris records in the data quality processing queue.

**Entity Name:** ephemRecord

Category: Attribute

Object Class: DpPpEphemRecords

The FDF ephemeris record in 'EPHEM' format.

**Entity Name:** ephemRecord

Category: Attribute

Object Class: DpPpFdfProcessingSet

The FDF ephemeris record in 'EPHEM' format.

**Entity Name:** evaluatorList

Category: Attribute

Object Class: ResourceChangeRequest

This attribute is collection of names of organizations designated to assess the impact of a proposed system change.

**Entity Name:** EventDescriptionWindow

Category: Attribute

Object Class: PIResourceManagersUI

**Entity Name:** EventSelectionWindow

Category: Attribute

Object Class: PIResourceManagersUI

**Entity Name:** eventType

Category: Attribute

Object Class: CmBmCotsLog

This attribute represents the classification of a system event according to source and required action.

**Entity Name:** eventType

Category: Attribute

Object Class: CmCrmCotsLog

This attribute represents the classification of a system event according to source and required action.

**Entity Name:** eventType

Category: Attribute

Object Class: CmScmCotsLog

This attribute represents the classification of a system event according to source and required action.

**Entity Name:** fileId

Category: Attribute

Object Class: MsMdAggregateLogFile

The name of the files that are to be archived (Repeat for each file to be archived)

**Entity Name:** fileSize

Category: Attribute

Object Class: MsMdAggregateLogFile

The size of the individual file in bytes to be archived

**Entity Name:** fileTimeStamp

Category: Attribute

Object Class: MsMdAggregateLogFile

the date and time this file was created



**Entity Name:** firstEphemerisRecord

Category: Attribute

Object Class: DpPpEphemerisRecords

The first ephemeris record in the data quality processing queue.

**Entity Name:** firstPacket

Category: Attribute

Object Class: DpPpAttitudePackets

The first attitude packet in the data quality processing queue.

**Entity Name:** format

Category: Attribute

Object Class: BaselineManagementReport

This attribute represents the data defining the structure of a report.

**Entity Name:** format

Category: Attribute

Object Class: LibraryFile

This attribute represents the classification that distinguishes among library files based on the way its contents are encoded

**Entity Name:** format

Category: Attribute

Object Class: ResourceChangeRequestReport

This attribute represents the data defining the structure of a report.

**Entity Name:** format

Category: Attribute

Object Class: SoftwareChangeReport

This attribute represents the data defining the structure of a report.

**Entity Name:** FtpBrowseAvailable

Category: Attribute

Object Class: DmGwDataCollection

It indicates if browse product for the data collection is available through FTP or not. It is same as V0 BROWSE, FTP attribute

**Entity Name:** gapThreshold

Category: Attribute

Object Class: DpPpQaParameters

The maximum duration of time over which the lack of ephemeris data can be tolerated.

**Entity Name:** GcmdEntryId

Category: Attribute

Object Class: DmGwDataCollection

The id assigned by the Global Change Master Directory (GCMD) for the data collection. It is equivalent to V0 attribute MD\_ENTRY\_ID.

**Entity Name:** genericTrapId

Category: Attribute

Object Class: MsTrap

This attribute specifies the generic trap id (0-4 for standard traps, 6 for enterprise specific traps)

**Entity Name:** homeDAAC

Category: Attribute

Object Class: MsUserProfile

The home DAAC or the primary DAAC for the user.

**Entity Name:** hostName

Category: Attribute

Object Class: MsMdAggregateLogFile

the host name for this aggregate

**Entity Name:** hostName

Category: Attribute

Object Class: MsMdConfigurationEntry

the name of the host to which this entry applies

**Entity Name:** hostName

Category: Attribute

Object Class: MsMdScheduleEntry

the host name to which this schedule entry applies

**Entity Name:** IconForApplObj

Category: Attribute

Object Class: CIDtApplicationObject

Filename of the pixmap to be used as icon for Application object

**Entity Name:** IconForConObj

Category: Attribute

Object Class: CIDtContainerObject

Filename of the pixmap to be used as icon for the container object

**Entity Name:** IconForDocObj

Category: Attribute

Object Class: CIDtDocumentObject

Filename of the pixmap to be used as icon for Document Object

**Entity Name:** IconForDtObj

Category: Attribute

Object Class: CIDtDesktop\_Object

Filename of the pixmap to be used as icon for Desktop Object

**Entity Name:** ID

Category: Attribute

Object Class: BaselineProfile

This attribute represents the code used to name a type of baseline.

**Entity Name:** ID

Category: Attribute

Object Class: DocumentProfile

This attribute represents the code that uniquely identifies system documentation.

**Entity Name:** ID

Category: Attribute

Object Class: ResourceChangeRequest

This attribute represents a unique identifier for a resource change request.

**Entity Name:** ID

Category: Attribute

Object Class: ResourceProfile

This attribute represents the code that uniquely identifies a resource profile.

**Entity Name:** impactSummary

Category: Attribute

Object Class: ResourceChangeRequest

This attribute is the information that summarizes assessments of the impact of a proposed change.

**Entity Name:** implementingOrganization

Category: Attribute

Object Class: ResourceChangeRequest

This attribute is the name of the organization assigned to implement a proposed change.

**Entity Name:** infoLevel

Category: Attribute

Object Class: MsAgSubAgent

This attribute specifies the level of information to send in the event notifications.

**Entity Name:** IntegratedBrowseAvailable

Category: Attribute

Object Class: DmGwDataCollection

It indicates if the browse product can be viewed through the client. It is same as V0 BROWSE, INTEGRATED attribute.

**Entity Name:** interval

Category: Attribute

Object Class: MsAgSubAgent

This attribute specifies the time interval for local polling.

**Entity Name:** interval

Category: Attribute

Object Class: MsMdConfigurationEntry

the interval in minutes the log file is to be transfered

**Entity Name:** ipAddr

Category: Attribute

Object Class: EcAgEvent

This attribute represents the IP address of the host that the application runs on.

**Entity Name:** issue

Category: Attribute

Object Class: DocumentProfile

This attribute represents the nomenclature used to distinguish among versions of a single edition of a document.

**Entity Name:** lastEphemerisRecord

Category: Attribute

Object Class: DpPpEphemerisRecords

The last ephemeris record in the data quality processing queue.

**Entity Name:** lastPacket

Category: Attribute

Object Class: DpPpAttitudePackets

The last attitude packet in the data quality processing queue.

**Entity Name:** leaf\_flag

Category: Attribute

Object Class: EcDnContext

Flag, 0 = context, 1 = entry name (file name - a leaf)

**Entity Name:** libraryOperation

Category: Attribute

Object Class: AccessProfile

This attribute represents the action performed on library files.

**Entity Name:** LocalityName

Category: Attribute

Object Class: DmGwDataCollection

This attribute provides a name denoting the spatial coverage of the data collection. It is equivalent to V0 DATASET\_COVERAGE, SPATIAL.

**Entity Name:** location

Category: Attribute

Object Class: BaselineProfile

This attribute represents a site at which a baseline is deployed.

**Entity Name:** location

Category: Attribute

Object Class: ConfiguredDevice

This attribute represents the place at a site where an integrated operational ECS device can be found.

**Entity Name:** location

Category: Attribute

Object Class: SoftwareLibrary

This attribute represents the site at which the software library is located.

**Entity Name:** location

Category: Attribute

Object Class: View

This attribute represents the network region, host, and local pathname at which the view is stored.

**Entity Name:** Look\_Up\_Table

Category: Attribute

Object Class: InBOBinMetadata

This attribute defines the appropriate look-up table for conversion from binary to ASCII.

**Entity Name:** mailAddr

Category: Attribute

Object Class: MsAcGuestUserReq

This attribute represents the mailing address of the guest user.

**Entity Name:** mailAddr

Category: Attribute

Object Class: MsUsProfile

This attribute represents the mailing address of the user.

**Entity Name:** MaxHits

Category: Attribute

Object Class: DsCIQuery

This attribute indicates the maximum number of granules to return (regardless of the number of actual hits, i.e. the granules which satisfy the search criteria). Perhaps in the future, this can be used to indicate the amount to check "estimated hits" against.

**Entity Name:** mcName

Category: Attribute

Object Class: EcAgEvent

This attribute represents the name of the host system.

**Entity Name:** mediaPref

Category: Attribute

Object Class: MsUserProfile

The media the user prefers data to be delivered on.

**Entity Name:** MessageId

Category: Attribute

Object Class: DmGwV0Requests

V0 client generated message id.

**Entity Name:** miver

Category: Attribute

Object Class: EcAgEvent

This attribute represents the minor version of the application.

**Entity Name:** mjver

Category: Attribute

Object Class: EcAgEvent

This attribute represents the major version of the application.



**Entity Name:** MO

Category: Attribute

Object Class: MsPmConfig

This is a string that identifies the managed object.

**Entity Name:** model

Category: Attribute

Object Class: HardwareControlItem

This attribute represents the identifier for a single type of item of a manufacturer's product line.

**Entity Name:** modifiedResources

Category: Attribute

Object Class: BaselineChange

This attribute represents the list of the resources whose version in a baseline differs from that in the baseline's predecessor.

**Entity Name:** msg

Category: Attribute

Object Class: EcAgEvent

This attribute represents the message from the application.

**Entity Name:** mtTypeID

Category: Attribute

Object Class: DsEsAlgorithmDescriptionTypeID

The ID used to distinguish between different types of Algorithm Description.

**Entity Name:** my DPR

Category: Attribute

Object Class: DpPrDataManager

This attribute contains an address of a DPR.

**Entity Name:** my size

Category: Attribute

Object Class: DsSdPoint

**Entity Name:** myAbortFlag

Category: Attribute

Object Class: DsDdDistRequestS

Set by a thread executing the Abort service, signals to a thread executing the ServiceRequest service that the request is to be aborted.

**Entity Name:** myAcquisitionProcessingBoundary

Category: Attribute

Object Class: PTimeScheduled

Identifies the time needed (for data) for extrapolation purposes.

**Entity Name:** myAcquisitionProcessingPeriod

Category: Attribute

Object Class: PTimeScheduled

Identifies the acquisition period for the input data.

**Entity Name:** myAction

Category: Attribute

Object Class: DsClSubscription

The action to be performed when the subscription fires.

**Entity Name:** myActiveStatus

Category: Attribute

Object Class: PIPlan

Indicator to identify active plan

**Entity Name:** myActualAvailability

Category: Attribute

Object Class: PIDataGranule

Data and time that data was made available to subscription manager.

**Entity Name:** myActualStart

Category: Attribute

Object Class: PIDPR

Actual start time from data processing

**Entity Name:** myAdvertisedServices

Category: Attribute

Object Class: DsDeESDtdDescriptor

Services that the associated ESDT provides that are advertised.

**Entity Name:** myAdvertisementList

Category: Attribute

Object Class: IoAdAdvertisingCollection\_C

stores the list of advertisements that are in the current collection.

**Entity Name:** myAdvertiserUR

Category: Attribute

Object Class: IoAdAdvertisement\_C

stores the universal reference of the advertising DBMS application server.

**Entity Name:** myAdvertisingContext

Category: Attribute

Object Class: IoAdAdvertisingCollection\_C

stores the session context for managing communications with the advertising DBMS application server.

**Entity Name:** myAdvertisingSession

Category: Attribute

Object Class: IoAdAdvertisingSrv\_C

stores the advertising session context pointer that is returned from the advertising DBMS application server.

**Entity Name:** myAdvertisingSrv

Category: Attribute

Object Class: IoAdAdvertisingCollection\_C

stores a pointer to the IoAdAdvertisingSrv\_C interface object.

**Entity Name:** myAdvertisingSrv

Category: Attribute

Object Class: IoAdAdvertisingSrv\_C

stores the universal reference of the advertising DBMS application server.

**Entity Name:** myAdvGroups

Category: Attribute

Object Class: IoAdAdvertisement\_C

stores the list of advertising groups to which this advertisement belongs.

**Entity Name:** myAggregateLength

Category: Attribute

Object Class: InRequestSummaryHeader

Total volume of data (in bytes) to be ingested based on the given request.

**Entity Name:** myAggregateLength

Category: Attribute

Object Class: InRequest

Total volume of data (in bytes) to be ingested based on the given request.

**Entity Name:** myAlgorithmUR

Category: Attribute

Object Class: DsGeECSDataProduct

UR of the delivered algorithm package that was used to generate this ECS data product.

**Entity Name:** myAliasList

Category: Attribute

Object Class: DsCdKeyword

**Entity Name:** myAllocationList

Category: Attribute

Object Class: DpPrDiskPartition

This pointer identifies the reference to a list of disk resource allocations which are associated with this object.

**Entity Name:** myApplicationInformation

Category: Attribute

Object Class: GIUR

**Entity Name:** myAppName

Category: Attribute

Object Class: EcUtLoggerRelA

will be used to hold the application name

**Entity Name:** myAppVersion

Category: Attribute

Object Class: EcUtLoggerRelA

will be used to hold the version number

**Entity Name:** myAcquireRequest

Category: Attribute

Object Class: DmGwProductRequest

stores the DmGwAcquireRequest for the product order.

**Entity Name:** myArchivalFlag

Category: Attribute

Object Class: InFileTypeTemplate

Indicates whether the file type needs to be permanently archived

**Entity Name:** myArchive

Category: Attribute

Object Class: DsGeESDT

A reference to the archive that this ESDT is stored in.

**Entity Name:** myArchiveDate

Category: Attribute

Object Class: DsStArchivedFile

This attribute indicates the time and date that the file was archived

**Entity Name:** myArrayLabels

Category: Attribute

Object Class: DsSdGrid

**Entity Name:** myASCII\_Type

Category: Attribute

Object Class: DsCdASCII

**Entity Name:** myAssociations

Category: Attribute

Object Class: DsDbAccess

This attribute contains a list of table names with which the given CollectableObject is associated. This attribute is assumed to be a one-to-one mapping with the values in myForeignKeys, and it is further assumed that the order in which the associated tables appear corresponds with the order of column names contained in attribute myForeignKeys.

**Entity Name:** myAttachedFiles

Category: Attribute

Object Class: CsEmMailRelA

Internal stored (possibly uuencoded) message bodies.

**Entity Name:** myAttributeName

Category: Attribute

Object Class: DsDeMetadataDef

The name of the metadata attribute as defined in the Core Metadata Model. Valid names/attributes are either core or product specific.

**Entity Name:** myAttributeToTableVector

Category: Attribute

Object Class: DsDbAttributeToTableVector

This vector holds the mappings of attributes to table and column names.

Category: Attribute

Object Class: PlDataGranule

**Entity Name:** myAvailability

Category: Attribute

Object Class: PlDataGranule

Flag to indicate availability of data.

**Entity Name:** myAvailableSpace

Category: Attribute

Object Class: DsStStagingDisk

This attribute indicates the amount of free disk space (in KBYTES) remaining for usage.

**Entity Name:** myBatchInfo

Category: Attribute

Object Class: CsFtFTPRelA

Used to store information for batch mode transfers.

**Entity Name:** myBatchScript

Category: Attribute

Object Class: CsFtFTPRelA

Used to store script for batch transfers.

**Entity Name:** myBCCList

Category: Attribute

Object Class: CsEmMailRelA

Internal list of BCC recipients of the message.

**Entity Name:** myBeginningDateTime

Category: Attribute

Object Class: DpPpSdpfLevelZeroProductionData

This field indicates the data start time for this file.

**Entity Name:** myBeginningDateTime

Category: Attribute

Object Class: DpPpSdpfLevelZeroSfduFile

This field indicates the data start time for this file.



**Entity Name:** myBeginningDateTime

Category: Attribute

Object Class: DpPpTrmmOnBoardAttitudeData

See DpPpTrmmScAncillaryData class for description of all attributes.

**Entity Name:** myBeginningDateTime

Category: Attribute

Object Class: DpPpTrmmScAncillaryData

This field indicates the data start time for this file.

**Entity Name:** myBeginningDateTime

Category: Attribute

Object Class: DpPpTrmmScOaData

This field indicates the data start time for this file.

**Entity Name:** myBeginningDateTime

Category: Attribute

Object Class: InRequestFileInfo

The starting date/time of the file ingest.

**Entity Name:** myBinaryBase

Category: Attribute

Object Class: GIBinaryP

This is a pointer to the actual bytes which comprise this binary parameter.

**Entity Name:** myBinaryList

Category: Attribute

Object Class: DsNsScienceSoftwareArchivePackage

The set of binary executables that have been compiled for this delivered algorithm package.

**Entity Name:** myBitDepth

Category: Attribute

Object Class: DsSdImage

**Entity Name:** myBlockCount

Category: Attribute

Object Class: DsStTape

This attribute indicates the current number of blocks which have been read from or written to the media currently mounted on the tape device.

**Entity Name:** myBlockSize

Category: Attribute

Object Class: DpPrDiskPartition

The block size is a fixed value imposed by the particular operating system. It should be used to convert file sizes to units of bytes.

**Entity Name:** myBlockSize

Category: Attribute

Object Class: DsStTape

This attribute indicates the block size (in bytes) used for reading and writing to tape.

**Entity Name:** myBlockSize

Category: Attribute

Object Class: PIDiskPartition

the block size for the partition

**Entity Name:** myBrowseList

Category: Attribute

Object Class: DsGeScienceData

Reference to the URs that are browse products for this science data product. Alternatively this may be a single UR for a collection which contains the browse products for this science data product.

**Entity Name:** myBrowseRequestList

Category: Attribute

Object Class: DmGwV0BrowseRequest

stores the list of DmGwBrowseRequest objects that are processing the individual browse requests.

**Entity Name:** myBrowseType

Category: Attribute

Object Class: DmGwV0BrowseRequest

stores the type of browse acquisition. Possible types are integrated and FTP-Pull.

**Entity Name:** myBrowseURLList

Category: Attribute

Object Class: DmGwV0BrowseRequest

stores the list of GIURs which point to the browse data to be obtained.

**Entity Name:** myCallback

Category: Attribute

Object Class: DsCINotificationReceiver

The callback that will be used when a notification is received.

**Entity Name:** myCallback

Category: Attribute

Object Class: DsCIRequest

Callback that will be made anytime the status changes.

**Entity Name:** myCallback

Category: Attribute

Object Class: DsCISubmittedRequest

On the client side, this is the callback that is used every time the status changes for this request.

**Entity Name:** myCallbackFunction

Category: Attribute

Object Class: DsSbCallBackTimer

The (member) function that should be called every time the interval occurs.

**Entity Name:** myCapacity

Category: Attribute

Object Class: DsDdElectronicMedia

Capacity for holding data: size of a single tape or CD or the amount of staging available for this request.

**Entity Name:** myCapacity

Category: Attribute

Object Class: DsDdLabeledMedia

Size of a single tape (accounting for density) or single CD.

**Entity Name:** myCapacity

Category: Attribute

Object Class: DsStCDROM

This attribute indicates the capacity (in KBYTES) of the media currently mounted.

**Entity Name:** myCapacity

Category: Attribute

Object Class: DsStTape

This attribute indicates the capacity (in KBYTES) of the media currently mounted in the tape resource.

**Entity Name:** myCatalogueCatagory

Category: Attribute

Object Class: PIDataType

Catalogue catagory indicates whether the Data Type is valid for a production request, which would indicate it is generated from a PGE at a site, otherwise the Data Type is some intermediate file, or input file received from another site.

**Entity Name:** myCategory

Category: Attribute

Object Class: DsSbEvent

This is a category which allows events of the same name to be distinguished from each other.

**Entity Name:** myCategory

Category: Attribute

Object Class: DsSrCommandInfo

The category of the command indicates to the receiving connection object how the command should be routed.

**Entity Name:** myCCList

Category: Attribute

Object Class: CsEmMailRelA

Internal list of CC's recipients of the message.

**Entity Name:** myCityName

Category: Attribute

Object Class: IoAdContact\_C

stores the city name of the address of the contact person.

**Entity Name:** myClientCallback

Category: Attribute

Object Class: IoAdAdvertisingCollection\_C

stores a pointer to the client callback object (IoAdSearchCallback) to be invoked when an advertising search completes.

**Entity Name:** myClientCallback

Category: Attribute

Object Class: IoAdAdvertisingSrv\_C

stores a pointer to the IoAdSearchCallback object to be invoked when an a text search operation completes.

**Entity Name:** myClient

Category: Attribute

Object Class: DsDoRequest

Reference to the associated client for this request.

**Entity Name:** myClientId

Category: Attribute

Object Class: InSession

Session's client identifier.

**Entity Name:** myClientList

Category: Attribute

Object Class: DsSvServer

List of the active clients being serviced by the server.

**Entity Name:** myClientMachine

Category: Attribute

Object Class: DpPrExecutionManager

This attribute identifies the local machine where this object is running.

**Entity Name:** myClientName

Category: Attribute

Object Class: DsDoClient

Name of the client. Used to identify the protocol and behaviour of a WWW client.

**Entity Name:** myClientVersion

Category: Attribute

Object Class: DsDoClient

Version number of the client. Different WWW clients may have different behaviour and different versions may present a different interface.

**Entity Name:** myCode

Category: Attribute

Object Class: DsGeTypeID

A unique number assigned to this type/version combination. Presumably it will be more efficient to use this number instead of the name and version to identify the type of an ESDT.

**Entity Name:** myCollector

Category: Attribute

Object Class: DmGwAcquireRequest

This attribute contains the universal reference to the data server which the data collection being requested is binded to.

**Entity Name:** myCollector

Category: Attribute

Object Class: DmGwBrowseRequest

This attribute contains the universal reference to the data server which the browse image being requested is binded to.

**Entity Name:** myCollector

Category: Attribute

Object Class: DsCIESDTRreference

A pointer to the collector that this reference is a member of. If this pointer is null, then this reference is a member of one of the collectors in the static collector vector.

**Entity Name:** myCollector

Category: Attribute

Object Class: DsCIRequest

Reference to the collector to which this request belongs.

**Entity Name:** myCollector

Category: Attribute

Object Class: DsClSubscription

A pointer to the collector that this reference is a member of. If this pointer is null, then this reference is a member of one of the collectors in the static collector vector.

**Entity Name:** myColorNames

Category: Attribute

Object Class: DsSdLookUpTable

**Entity Name:** myCommand

Category: Attribute

Object Class: DsCtAcquireCommand

Reference to the associated command.

**Entity Name:** myCommand

Category: Attribute

Object Class: DsCtInsertCommand

Associated DsCtCommand Object.

**Entity Name:** myCommand

Category: Attribute

Object Class: DsCtSearchcommand

Reference to associated command object.

**Entity Name:** myCommand

Category: Attribute

Object Class: DsDbInterface

Handle for last command executed. This is a COTS product specific item (e.g. Sybase). It is hidden from caller for product transparency. The SQL statement specified by caller during ExecuteQuery() call is embedded inside the command structure.



**Entity Name:** myCommandName

Category: Attribute

Object Class: DsCtCommand

Name of the service to execute

**Entity Name:** myCommandRequest

Category: Attribute

Object Class: DsCtCommand

Associated request

**Entity Name:** myCommands

Category: Attribute

Object Class: DpPrPge

The command string will be used to provide startup condition information to the activation shell identified by the Shell attribute. The default command string is specific to the default SDP Toolkit activation shell.

**Entity Name:** myCommands

Category: Attribute

Object Class: DsSrRequestInfo

A list of commands which comprise this request.

**Entity Name:** myCommands

Category: Attribute

Object Class: PrPge

**Entity Name:** myCommandString

Category: Attribute

Object Class: PIDataTypeReq

This string is used to construct the acquire command for the data type, used to stage the data from the data server.

**Entity Name:** myCommandString

Category: Attribute

Object Class: PIDataTypeReq

This string is used to construct the acquire command for the data type, used to stage the data from the data server.

**Entity Name:** myCommandString

Category: Attribute

Object Class: PIOutputYield

This string is used to construct the insert command for the data type, used to destage the data to the data server.

**Entity Name:** myCommandString

Category: Attribute

Object Class: PIOutputYield

This string is used to construct the insert command for the data type, used to destage the data to the data server.

**Entity Name:** myCommandType

Category: Attribute

Object Class: DsCtCommand

Command type to execute

**Entity Name:** myCommandType

Category: Attribute

Object Class: DsDoCommand

Type of command to execute. Relates to the service request type.

**Entity Name:** myCommndList

Category: Attribute

Object Class: DsCtRequest

List of the commands associated with this request.

**Entity Name:** myCompletionState

Category: Attribute

Object Class: PIDPR

Status indicator describing active status of data processing request

**Entity Name:** myCompressedSize

Category: Attribute

Object Class: DsDdDataItem

Size of the object after being compressed.

**Entity Name:** myCompressedSize

Category: Attribute

Object Class: DsDdDataItem

Size of the object after being compressed.

**Entity Name:** myCompression

Category: Attribute

Object Class: DsSdGrid

**Entity Name:** myCompression

Category: Attribute

Object Class: DsSdSwath

**Entity Name:** myCompressionType

Category: Attribute

Object Class: DsDdDataItem

Type of compression, if any, performed on the item. Compression types are TBD, and no compression is supported in Release A.

**Entity Name:** myCompressionType

Category: Attribute

Object Class: DsSdCSDT

**Entity Name:** myComputer

Category: Attribute

Object Class: PlResourceRequirement

A computer within the string required by the PGE

**Entity Name:** myComputerList

Category: Attribute

Object Class: PlString

Describes the list of computers that make up the string

**Entity Name:** myComputerSet

Category: Attribute

Object Class: DpPrString

This pointer attribute references the collection of Computer resources which are associate with this object instance.

**Entity Name:** myConfirmTimeOut

Category: Attribute

Object Class: DsStPullMonitor

This attribute indicates OPS personnel desire to confirm or not to confirm deletion of pulled data files when the files presence in the pull area exceeds the expiration time.

**Entity Name:** myConnection

Category: Attribute

Object Class: DsClSubmittedRequest

The ID of the connection with which this request is associated.

**Entity Name:** myConnection

Category: Attribute

Object Class: DsDbInterface

Handle to the current database connection. This is a COTS specific (in this case - Sybase) data structure. It is hidden from the caller for product transparency.

**Entity Name:** myConnectionOpen

Category: Attribute

Object Class: CsFtFTPRelA

Status bit to indicate if a connection is currently open on the primary host.

**Entity Name:** myConnectionThreshold

Category: Attribute

Object Class: DsSrServer

The maximum number of connections that can be started by this server.

**Entity Name:** myContact

Category: Attribute

Object Class: IoAdAdvertisement\_C

stores the IoAdContact\_C object that contains the human contact information for the advertisement.

**Entity Name:** myContext

Category: Attribute

Object Class: DsDbInterface

Database client-library programming context.

**Entity Name:** myCoreMetadataConfiguration

Category: Attribute

Object Class: DsDeESDtdDescriptor

**Entity Name:** myCountryName

Category: Attribute

Object Class: IoAdContact\_C

stores the country name of the address of the contact person.

**Entity Name:** myCpuAllocation

Category: Attribute

Object Class: DpPrComputer

This attribute defines the number of processors which are currently allocated to the processing of PGEs on this platform. This value is periodically adjusted to account for the allocation and deallocation of processing resources for PGEs This value cannot exceed the total number of CPUs that defined for this platform.

**Entity Name:** myCPUs

Category: Attribute

Object Class: PlComputer

The number of CPUs within the computer

**Entity Name:** myCreateDate

Category: Attribute

Object Class: DsCIESDTReference

The creation date of the ESDT that this reference represents.

**Entity Name:** myCurrentDataVolumeKeep

Category: Attribute

Object Class: InRequestManager

Current running total of data volume in active ingest request. Incremented as new InRequest objects are created; decremented when InRequest objects are deleted.

**Entity Name:** myCurrentPointer

Category: Attribute

Object Class: InRequestList

The current position in the Ingest Request List.

**Entity Name:** myCurrentqueued

Category: Attribute

Object Class: DsStResourceQueue

This attribute indicates the current number of entries in the resource queue.

**Entity Name:** myCurrentRequests

Category: Attribute

Object Class: InRequestManager

Keeps a running total of the number of requests currently in the system. Incremented as new InRequest objects are created; decremented when InRequest objects are deleted.

**Entity Name:** myCurrentSize

Category: Attribute

Object Class: DsStPullList

This attribute indicates the size (in KBYTES) of all files currently in the distribution "pull" list (i.e., those data files that will be pulled by their respective requester).

**Entity Name:** myCurrentSize

Category: Attribute

Object Class: DsStStagingDataList

This attribute indicates the current number of files resident in staging disk cache.

**Entity Name:** myDAAC

Category: Attribute

Object Class: DsEsProductionPlan

**Entity Name:** myDAAC

Category: Attribute

Object Class: PIPlanMetadataFile

The site at which the plan was produced

**Entity Name:** myDANSeqNo

Category: Attribute

Object Class: InDAN

The identifier of the DAN data message.

**Entity Name:** myDatabase

Category: Attribute

Object Class: DsDbAccess

This is a derived attribute in that it is not stored anywhere. It is static because all objects in the Dataserver will be stored in the same database. This attribute is used to open the database after a connection (login) to the server has been established.

**Entity Name:** myDataBoundary

Category: Attribute

Object Class: PlRoutineArrival

Identifies the time boundary for each Data Granule.

**Entity Name:** myDataCenter

Category: Attribute

Object Class: DsEsGuide

**Entity Name:** myDataCollectionStartTime

Category: Attribute

Object Class: PlProductionRequest

Start time for the production request.

**Entity Name:** myDataCollectionStopTime

Category: Attribute

Object Class: PlProductionRequest

Stop time for the production request.



**Entity Name:** myDataDescriptor

Category: Attribute

Object Class: InRequestProcessData

ASCII description of the data type.

**Entity Name:** myDataDictionaryInfo

Category: Attribute

Object Class: DsDeESDTDescriptor

The description of the ESDT that this ESDT descriptor defines.

**Entity Name:** myDatafile

Category: Attribute

Object Class: DsCtInsertCommand

Document data to be inserted in the document repository.

**Entity Name:** myDataGranule

Category: Attribute

Object Class: DpPrQaMonitor

This attribute holds the data granule obtained by the GetData or VisualizeData operations.

**Entity Name:** myDataGranuleID

Category: Attribute

Object Class: InRequestProcessData

Numeric (ASCII) identifier of a data granule within an ingest request. Determined incrementally for each data granule in an ingest request.

**Entity Name:** myDataGranuleState

Category: Attribute

Object Class: InRequestProcessData

State of processing ("Not transferred", "Transferred", "Submitted", and "Inserted") of a data granule for a given ingest request.

**Entity Name:** myDataGranuleVolume

Category: Attribute

Object Class: InRequestSummaryData

Total data volume to be ingested for a data granule in an ingest request. The total data volume for the data granule is determined by summing the data volumes for the files comprising the data granule.

**Entity Name:** myDataId

Category: Attribute

Object Class: DpPpFdfData

The data ID is a bit configuration assigned to a particular mission. The FDF assigns the number in the mission unique ICD.

**Entity Name:** myDataId

Category: Attribute

Object Class: DpPpFdfTrmmDefinitiveOrbitData

The data ID is a bit configuration assigned to a particular mission. The FDF assigns the number in the mission unique ICD.

**Entity Name:** myDataLocation

Category: Attribute

Object Class: DsDeMetadataDef

This attribute indicates the location where this attribute is expected to be found when the metadata is being generated. This location is used by the processing subsystem to flag whether the PGE generates the value, whether it is in the process control file (PCF), etc.

**Entity Name:** myDataLocation

Category: Attribute

Object Class: InTransferredData

Indicates the disk location where the ingest files reside (after data transmission).

**Entity Name:** myDataMap

Category: Attribute

Object Class: DpPrDataManager

A list of DataMap entries.

**Entity Name:** myDataObjectClassName

Category: Attribute

Object Class: GIUR

**Entity Name:** myDataPeriod

Category: Attribute

Object Class: PlRoutineArrival

Identifies the data collection period within each Data Granule.

**Entity Name:** myDataProvider

Category: Attribute

Object Class: InDAN

Indicates who provides the data for ingest.

**Entity Name:** myDataServer

Category: Attribute

Object Class: DmGwProductRequest

stores the UR of the data server to be used for the product request.

**Entity Name:** myDataServerURLList

Category: Attribute

Object Class: DmGwDirectoryRequest

stores the list of data server GIURs that are returned from the directory search.

**Entity Name:** myDataServerURList

Category: Attribute

Object Class: DmGwInvRequests

list of GIUR pointers for the data servers to be searched.

**Entity Name:** myDataServerURList

Category: Attribute

Object Class: DmGwV0BrowseRequest

stores the list of GIURs for the data servers which will process the browse requests.

**Entity Name:** myDataSets

Category: Attribute

Object Class: PIPlanMetadataFile

Describes the data sets which are planned for production within the plan.

**Entity Name:** myDataType

Category: Attribute

Object Class: DpPpSdpfLevelZeroDatasetFile

This parameter identifies the data type of the data file (e.g., LZ means Level Zero, OR means orbit, AT means attitude, etc.).

**Entity Name:** myDataType

Category: Attribute

Object Class: DpPpSdpfLevelZeroProductionData

This parameter identifies the data type of the data file (e.g., LZ means L0, OR means orbit, AT means attitude, etc.).

**Entity Name:** myDataType

Category: Attribute

Object Class: DpPpSdpfLevelZeroSfduFile

This parameter identifies the data type of the data file (e.g., LZ means Level Zero, OR means orbit, AT means attitude, etc.).

**Entity Name:** myDataType

Category: Attribute

Object Class: DpPpTrmmOnBoardAttitudeData

**Entity Name:** myDataType

Category: Attribute

Object Class: DpPpTrmmScAncillaryData

This parameter identifies the data type of the data file (e.g., LZ means L0, OR means orbit, AT means attitude, etc.).

**Entity Name:** myDataType

Category: Attribute

Object Class: DpPpTrmmScOaData

This parameter identifies the data type of the data file (e.g. LZ means L0, OR means orbit, AT means attitude, etc.).

**Entity Name:** myDataType

Category: Attribute

Object Class: InDataPreprocessTask

The attribute specifies the data type (e.g. metadata, science) for the Data Preprocess Task object.

**Entity Name:** myDataType

Category: Attribute

Object Class: InDataTypeTemplate

This attribute specifies the data type (e.g. CER00, LIS00) for a data type template object.

**Entity Name:** myDataType

Category: Attribute

Object Class: InDataType

This attribute specifies the data type (e.g. CER00, LIS00) for the data type object.

**Entity Name:** myDataType

Category: Attribute

Object Class: InRequestSummaryData

Data type identifier for the data granule. Selected from a list of valid data type identifiers maintained by the Data Server.

**Entity Name:** myDataType

Category: Attribute

Object Class: InSourceMCF

This attribute specifies the data type (e.g., CER00, LIS00) associated with the source metadata configuration file.

**Entity Name:** myDataTypeCount

Category: Attribute

Object Class: InDAN

Indicates the total number of data types in the DAN.

**Entity Name:** myDataTypeId

Category: Attribute

Object Class: InDataServerInsertionTask

Data type specification that is used for determining the appropriate Data Server to which the request is sent.

**Entity Name:** myDataTypeIdList

Category: Attribute

Object Class: InRequest

The set of data types associate with the ingest files.

**Entity Name:** myDataTypeIdList

Category: Attribute

Object Class: InTransferredData

The set of data types associated with the ingest files.

**Entity Name:** myDataTypeList

Category: Attribute

Object Class: InDAN

This is a list that contains information about the file (e.g., file name, size, location).

**Entity Name:** myDataTypeNames

Category: Attribute

Object Class: DsStArchive

**Entity Name:** myDataTypeReq

Category: Attribute

Object Class: PlDataTypeReq

This attribute specifies the data type requirement of a PGE. The string specifies the select statement to be applied to the Data Granule table, to determine the input Data Granules for a given Data Processing Request.

**Entity Name:** myDataTypeSelectionWindow

Category: Attribute

Object Class: DpPrQaMonitor

This represents the GUI window to select the data type for subscriptions.

**Entity Name:** myDataVersion

Category: Attribute

Object Class: DpPpSdpfLevelZeroDatasetFile

Indicates the data version.

**Entity Name:** myDataVersion

Category: Attribute

Object Class: DpPpSdpfLevelZeroProductionData

Indicates the data version.

**Entity Name:** myDataVersion

Category: Attribute

Object Class: DpPpSdpfLevelZeroSfduFile

Indicates the data version.

**Entity Name:** myDataVersion

Category: Attribute

Object Class: InRequestProcessData

Version number of the data granule to be ingested (> 1 if a reprocessed granule).

**Entity Name:** myDateBase

Category: Attribute

Object Class: GIDateP

This is the current value of this date parameter.

**Entity Name:** myDate

Category: Attribute

Object Class: DsSdCSDT

The date when the CSDT was created.

**Entity Name:** myDateCreated

Category: Attribute

Object Class: DsDdMedia

Date that the file transfer to the requested media was initiated.

**Entity Name:** myDBConnections

Category: Attribute

Object Class: DsDbAccess

This static attribute holds a set of database connections so that each instantiation of the object can have immediate access to the database (i.e., without having to login and open the database). This pool of database handles is established at dataserver startup, and should have a configurable limit to be stored (that is, the actual number of connections to create should be a configuration variable). This pool should be removed (each connection closed) at destructor time. In case of a crash, Sybase will probably clean up broken connections anyway, so this case can be ignored. If Sybase does NOT clean up broken connections, then whatever process is the norm for doing so (manual or otherwise) can be used.



**Entity Name:** myDefaultValue

Category: Attribute

Object Class: PIUserParameters

The default value for the user parameter.

**Entity Name:** myDelay

Category: Attribute

Object Class: PIRoutineArrival

The average delay between data collection and the arrival that of the Data Granule within ECS.

**Entity Name:** myDeletionDate

Category: Attribute

Object Class: DsStArchivedFile

This attribute indicates the deletion time and date for the archived file. For most files, there is no deletion time.

**Entity Name:** myDeliveryMech

Category: Attribute

Object Class: DmGwProductRequest

stores the DmGwMediaInfo type for the product request.

**Entity Name:** myDensity

Category: Attribute

Object Class: DsDdTapeMedia

Requested density for the write to tape. Values are high, medium, and low

**Entity Name:** myDensity

Category: Attribute

Object Class: DsDdTapeProcessor

**Entity Name:** myDescription

Category: Attribute

Object Class: DsClSubscription

String which contains service of the subscription.

**Entity Name:** myDescription

Category: Attribute

Object Class: DsDeDD

Detailed information that is exported to the Data Management Subsystem which describes contents, formats, valid values, etc.

**Entity Name:** myDescription

Category: Attribute

Object Class: DsDeEvent

This is a description of the event that instances of this data type will detect. For example, the description of the INSERT event for the CER02 data type might indicate that the INSERT event occurs whenever a CER02 granule has been successfully archived in this DSS. The description also would include information about what information is made available when the event occurs. For example, in the case of INSERT, the UR of the new granule would be provided.

**Entity Name:** myDescription

Category: Attribute

Object Class: DsDeScienceParameter

This attribute provides a detailed information describing this science parameter, maybe its meaning and units. This information is whatever the data provider deems is a useful description for this science parameter.

**Entity Name:** myDescription

Category: Attribute

Object Class: DsDeService

This attribute provides a description of the Service and its parameters and whether they are required or not. In addition, the return values are described.

**Entity Name:** myDescription

Category: Attribute

Object Class: DsSbEvent

This is the description of the event.

**Entity Name:** myDescription

Category: Attribute

Object Class: GIParameter

The description of this parameter (optional).

**Entity Name:** myDescription

Category: Attribute

Object Class: IoAdAdvertisement\_C

stores the text description of the advertisement.

**Entity Name:** myDescription

Category: Attribute

Object Class: PIDataType

This attribute provides a text description for the Data Type

**Entity Name:** myDescription

Category: Attribute

Object Class: PIGroundEvent

This attribute provides storage for a text description of a ground event

**Entity Name:** myDescription

Category: Attribute

Object Class: PIPlan

Descriptive text for operator comments describing conditions under which the plan was generated.

**Entity Name:** myDescription

Category: Attribute

Object Class: PIPlanMetadataFile

Captures the operators description of the purpose of the plan (for example 30 day forecast)

**Entity Name:** myDescription

Category: Attribute

Object Class: PIUserParameters

Describes the user parameter

**Entity Name:** myDescriptor

Category: Attribute

Object Class: DpPpSdpfLevelZeroDatasetFile

This parameter identifies the name of the instrument or sensor that collected the data, or further identified the type of data (e.g., SCR means spacecraft housekeeping, etc.).

**Entity Name:** myDescriptor

Category: Attribute

Object Class: DpPpSdpfLevelZeroSfduFile

This parameter identifies the name of the instrument or sensor that collected the data, or further identifies the type of data (e.g., SCR means spacecraft housekeeping, etc.).

**Entity Name:** myDescriptor

Category: Attribute

Object Class: DpPpTrmmOnBoardAttitudeData

**Entity Name:** myDescriptor

Category: Attribute

Object Class: DpPpTrmmScAncillaryData

This parameter identifies the name of the instrument or sensor that collected the data, or further identifies the type of data (e.g., SCR means Spacecraft Housekeeping, etc.)

**Entity Name:** myDescriptor

Category: Attribute

Object Class: DpPpTrmmScOaData

This parameter identifies the name of the instrument or sensor that collected the data, or further identifies the type of data (e.g., SCR Spacecraft, Housekeeping, etc.).

**Entity Name:** myDesignatedPrinter

Category: Attribute

Object Class: DsDdLabeledMedia

Holds the name of the printer designated for printing labels for media. This will not be needed until Release B.

**Entity Name:** myDesignatedPrinter

Category: Attribute

Object Class: DsDdPackingSlip

Name of the printer designated for printing the packing list for shipment of removable media.

**Entity Name:** myDesignatedPrinter

Category: Attribute

Object Class: DsDdShippingLabel

Printer designated for printing the shipping label.

**Entity Name:** myDestination

Category: Attribute

Object Class: DsDdPushProcessor

Destination for the electronic push, which includes destination TCP/IP address and directory path.

**Entity Name:** myDestination

Category: Attribute

Object Class: DsStNetworkResource

This attribute identifies the destination machine for the network data transfer.

**Entity Name:** myDestPassword

Category: Attribute

Object Class: DsDdPushProcessor

Password to use at the destination node.

**Entity Name:** myDeviceID

Category: Attribute

Object Class: PIDiskPartition

specifies the UNIX device id for the partition

**Entity Name:** myDimension

Category: Attribute

Object Class: DsSdGrid

**Entity Name:** myDimensions

Category: Attribute

Object Class: DsSdSwath

**Entity Name:** myDirectory

Category: Attribute

Object Class: DsDdPushMedia

Directory on the remote node where files will be copied by the push distribution

**Entity Name:** myDirectoryFileName

Category: Attribute

Object Class: DsStArchive

**Entity Name:** myDirectoryFileName

Category: Attribute

Object Class: DsStFileDirectory

This is the name of the external file that holds file directory information.

**Entity Name:** myDirectoryID

Category: Attribute

Object Class: InRequestFileInfo

The directory containing the Request files.

**Entity Name:** myDirName

Category: Attribute

Object Class: DsStDirectory

This attribute indicates the name of the directory in the staging disk workarea.

**Entity Name:** myDirSize

Category: Attribute

Object Class: DsStDirectory

This attribute indicates the current size (in KBYTES) of the directory created in the staging disk workarea.

**Entity Name:** myDiscipline

Category: Attribute

Object Class: DpPpSdpfLevelZeroDatasetFile

Indicates the name of the discipline (e.g., Space Physics, etc.).

**Entity Name:** myDiscipline

Category: Attribute

Object Class: DpPpSdpfLevelZeroProductionData

Indicates the name of the discipline (e.g., Space Physics, etc.)

**Entity Name:** myDiscipline

Category: Attribute

Object Class: DpPpSdpfLevelZeroSfduFile

Indicates the name of the discipline (e.g., Space Physics, etc.).

**Entity Name:** myDiscipline

Category: Attribute

Object Class: DpPpTrmmOnBoardAttitudeData

**Entity Name:** myDiscipline

Category: Attribute

Object Class: DpPpTrmmScAncillaryData

Indicates the name of the discipline (e.g., Space Physics, etc.)

**Entity Name:** myDiscipline

Category: Attribute

Object Class: DpPpTrmmScOaData

Indicates the name of the discipline (e.g., Space Physics, etc.).

**Entity Name:** myDiskList

Category: Attribute

Object Class: PlComputer

Describes the disks associated with the computer.

**Entity Name:** myDiskSet

Category: Attribute

Object Class: DpPrComputer

This attribute points to the set of objects which represent the attached storage devices.

**Entity Name:** myDiskSpace

Category: Attribute

Object Class: PlResourceRequirement

The disk space required for a PGE



**Entity Name:** myDismountTime

Category: Attribute

Object Class: DsStResourcePolicy

This attribute specifies the time in seconds required by OPS personnel to dismount a single piece of media from a device in the resource pool.

**Entity Name:** myDisposition

Category: Attribute

Object Class: EcUtLoggerRelAMgmt  
will hold the disposition

**Entity Name:** myDistFormat

Category: Attribute

Object Class: DsDdDistRequestS

Format - tar, cpio, or none - in which to write the distribution data to the output media.

**Entity Name:** myDistFormat

Category: Attribute

Object Class: DsDdDistRequestS

Format - tar, cpio, or none - in which to write the distribution data to the output media.

**Entity Name:** myDistList

Category: Attribute

Object Class: DsDdDistRequestS

List of items to be distributed.

**Entity Name:** myDistributionList

Category: Attribute

Object Class: DsDdMedia

Reference to the DsDdDistList object which is associated with this request. Used to allow access to the list of data items for the request.

**Entity Name:** myDistributionMech

Category: Attribute

Object Class: DmGwProductRequest

stores the data server distribution interface object.

**Entity Name:** myDll

Category: Attribute

Object Class: DsGeESDTWrapper

This is a pointer to the dynamic library class that holds the implementation of the actual ESDT that this instance wraps.

**Entity Name:** myDLLFileName

Category: Attribute

Object Class: DsGeESDTDynamicLibrary

The file name of the dynamic linked library that contains the implementation for this ESDT.

**Entity Name:** myDocuementCreated

Category: Attribute

Object Class: DsEsESDT

**Entity Name:** myDocuementUpdated

Category: Attribute

Object Class: DsEsESDT

**Entity Name:** myDocumentVersion

Category: Attribute

Object Class: DsEsESDT

**Entity Name:** myDomain

Category: Attribute

Object Class: DsDeMathOp

This attribute contains the domain for the mathematical operation. This domain is used to evaluate the mathematical expression and determine whether a given value meets the criteria. For example, the domain might be "CERES" and the MathOperation might be "EQ".

**Entity Name:** myDomain

Category: Attribute

Object Class: DsSrRequestInfo

A list of URs (of ESDTs currently in the working collection) to which this request should be applied. If this list is empty, the request will be applied to all ESDTs in the collection.

**Entity Name:** myDomainValues

Category: Attribute

Object Class: DsDeSeries

This is a vector that contains an explicit list of valid values for this attribute.

**Entity Name:** myDomvalList

Category: Attribute

Object Class: DsCdKeyword

**Entity Name:** myDoubleBase

Category: Attribute

Object Class: GIDoubleP

This is the value of this double parameter.

**Entity Name:** myDpcio

Category: Attribute

Object Class: DpPpSdpfLevelZeroProductionData

Data products content identifier object. To describe a "detached SFDU header" file, this DPCIO applies to a file group, and provides labels for the files within that file group.

**Entity Name:** myDpcio

Category: Attribute

Object Class: DpPpSdpfLevelZeroSfduFile

Data products content identifier object. To describe a "detached SFDU header" file, the DPCIO applies to a file group, and provides labels for the files within that file group.

**Entity Name:** myDprid

Category: Attribute

Object Class: PIDPR

**Entity Name:** myDsDoGuideTypeList

Category: Attribute

Object Class: DsEsGuideTypeID

List of currently active objects. Used mainly for fault recovery and memory management.

**Entity Name:** myDServURString

Category: Attribute

Object Class: PIDDataType

Universal Reference to identify Data Server providing services (retrieve, insert, inspect) for the Data Type.

**Entity Name:** myDServURString

Category: Attribute

Object Class: PIDDataType

Universal Reference to identify Data Server providing services (retrieve, insert, inspect) for the Data Type.

**Entity Name:** myDsEsAlgdescList

Category: Attribute

Object Class: DsEsAlgorithmDescription

**Entity Name:** myDsEsAlgdescTyID

Category: Attribute

Object Class: DsEsAlgorithmDescription

**Entity Name:** myDsEsCSDT

Category: Attribute

Object Class: DsEsESDT

**Entity Name:** myDsEsESDT

Category: Attribute

Object Class: DsCtAcquireCommand

Reference to the document ESDT associated with the acquire command. The CSDT related to this ESDT is used to implement the extract operation.

**Entity Name:** myDsEsESDT

Category: Attribute

Object Class: DsCtInsertCommand

Reference to ESDT for internalize operation.

**Entity Name:** myDsEsGuideList

Category: Attribute

Object Class: DsEsGuide

**Entity Name:** myDsEsGuideTypeID

Category: Attribute

Object Class: DsEsGuide

**Entity Name:** myDsEsProdPlTyID

Category: Attribute

Object Class: DsEsProductionPlan

**Entity Name:** myDsEsReferencePaperList

Category: Attribute

Object Class: DsEsReferencePaper

**Entity Name:** myDsEsReferencePaperType

Category: Attribute

Object Class: DsEsReferencePaper

**Entity Name:** myDsEsScienceSoftWPkg

Category: Attribute

Object Class: DsEsAlgorithmDescription

**Entity Name:** myDsEsTypeID

Category: Attribute

Object Class: DsEsESDT

**Entity Name:** myDsEsTypeList

Category: Attribute

Object Class: DsEsTypeID

**Entity Name:** myDSSUniversalReference

Category: Attribute

Object Class: DmGwDistribution

This attribute contains the universal reference to the distribution data server.

**Entity Name:** myDuration

Category: Attribute

Object Class: PlGroundEvent

This attribute describes the duration of the Ground Event

**Entity Name:** myDurationType

Category: Attribute

Object Class: DsClSubscription

Time duration of subscriptions (i.e., can be done one time or forever (outstanding)).

**Entity Name:** myDynamicFlag

Category: Attribute

Object Class: PIDataType

Indicates whether the Data Type is dynamic or static. Examples of dynamic are L0, L1 data sets etc. with a frequent update time. Examples of static are calibration files which only change with a new version of a PGE.

**Entity Name:** myEarliestSWVersion

Category: Attribute

Object Class: IoAdRequiredSW\_C

stores the earliest useable version number of the software component.

**Entity Name:** myECSAddress

Category: Attribute

Object Class: GIUR

**Entity Name:** myECSSpatialExtent

Category: Attribute

Object Class: DmGwDirectoryRequest

stores the spatial extent to be used in the directory search.

**Entity Name:** myECSSpatialExtent

Category: Attribute

Object Class: DmGwInvRequests

spatial constraint specified for the inventory search.

**Entity Name:** myECSTemporalExtent

Category: Attribute

Object Class: DmGwDirectoryRequest

stores the temporal range to be used in the directory search.

**Entity Name:** myECSTemporalExtent

Category: Attribute

Object Class: DmGwInvRequests

temporal constraint specified for the inventory search.

**Entity Name:** myEfficiencyFactor

Category: Attribute

Object Class: DsStResourcePolicy

This attribute specifies the efficiency factor reflecting how well and how proficient OPS personnel are when handling media during mount and dismount operations.

**Entity Name:** myElapsedTime

Category: Attribute

Object Class: PlPerformance

Elapsed time for the PGE during AI&T

**Entity Name:** myEmailAddress

Category: Attribute

Object Class: PlAddressFile

Email address for recipient to be informed of a new script

**Entity Name:** myEMail

Category: Attribute

Object Class: IoAdContact\_C

stores the e-mail address of the contact person.



**Entity Name:** myEndDate

Category: Attribute

Object Class: DpPpFdfData

End date of ephemeris file.

**Entity Name:** myEndDate

Category: Attribute

Object Class: DpPpFdfTrmmDefinitiveOrbitData

End date of the ephemeris file.

**Entity Name:** myEndDate

Category: Attribute

Object Class: DsEsProductionPlan

**Entity Name:** myEndDate

Category: Attribute

Object Class: DsStResourceSchedule

This attribute indicates the end time and date of the current view of the schedule. This time and date are changed on a daily basis.

**Entity Name:** myEndDay

Category: Attribute

Object Class: PIPlanMetadataFile

The end date of the plan

**Entity Name:** myEndingDateTime

Category: Attribute

Object Class: DpPpSdpfLevelZeroDatasetFile

This field indicates the data stop time for the file.

**Entity Name:** myEndingDateTime

Category: Attribute

Object Class: DpPpSdpfLevelZeroProductionData

This field indicates the data stop time for this file.

**Entity Name:** myEndingDateTime

Category: Attribute

Object Class: DpPpSdpfLevelZeroSfduFile

This field indicates the data stop time for this file.

**Entity Name:** myEndingDateTime

Category: Attribute

Object Class: DpPpTrmmOnBoardAttitudeData

**Entity Name:** myEndingDateTime

Category: Attribute

Object Class: DpPpTrmmScAncillaryData

This field indicates the data end time for this file.

**Entity Name:** myEndingDateTime

Category: Attribute

Object Class: DpPpTrmmScOaData

This field indicates the data end time for this file.

**Entity Name:** myEndObjectDpcio

Category: Attribute

Object Class: DpPpSdpfLevelZeroProductionData

This statement terminates the aggregation unit describing the "detached SFDU header."

**Entity Name:** myEndObjectDpcio

Category: Attribute

Object Class: DpPpSdpfLevelZeroSfduFile

This statement terminates the aggregation unit describing the detached SFDU header.

**Entity Name:** myEndObjectFileGroup

Category: Attribute

Object Class: DpPpSdpfLevelZeroDatasetFile

This statement terminates the aggregation unit describing the attributes of a group of data files within the product.

**Entity Name:** myEndObjectFileGroup

Category: Attribute

Object Class: DpPpSdpfLevelZeroProductionData

This statement terminates the aggregation unit describing the attributes of a group of data files within the product.

**Entity Name:** myEndObjectFileGroup

Category: Attribute

Object Class: DpPpSdpfLevelZeroSfduFile

This statement terminates the aggregation unit describing the attributes of a group of data files within the product.

**Entity Name:** myEndObjectFileSpec

Category: Attribute

Object Class: DpPpSdpfLevelZeroDatasetFile

This statement terminates the aggregation unit describing an individual file within a data product.

**Entity Name:** myEndObjectFileSpec

Category: Attribute

Object Class: DpPpSdpfLevelZeroProductionData

This statement terminates the aggregation unit describing an individual file within a data product.

**Entity Name:** myEndObjectFileSpec

Category: Attribute

Object Class: DpPpSdpfLevelZeroSfduFile

This statement terminates the aggregation unit describing an individual file within a data product.

**Entity Name:** myEndTime

Category: Attribute

Object Class: DsStReservation

This attribute indicates the end time and date for the reservation.

**Entity Name:** myEndTime

Category: Attribute

Object Class: PIPlan

End time for the plan

**Entity Name:** myEntryCounter

Category: Attribute

Object Class: InHistoryLog

Indicates the number of entries in the specified log.

**Entity Name:** myEnvironment

Category: Attribute

Object Class: DpPrPge

This attribute may contain the value of zero or more environment variable pairs which will be used to define the operating conditions for the science software.

**Entity Name:** myEnvironment

Category: Attribute

Object Class: PrPge

**Entity Name:** myErrorBitmask

Category: Attribute

Object Class: EcUtLoggerRelA

will be used to hold the ErrorLevel bitmask. It will determine which error levels will get logged.

**Entity Name:** myErrorLevel

Category: Attribute

Object Class: EcUtLoggerRelA

will be used to hold the currently set error level this has a default level of 0

**Entity Name:** myESDT

Category: Attribute

Object Class: DsGeESDTWrapper

This is a pointer to the actual ESDT that this instance wraps. This base class pointer points to a real ESDT of the type that it is (i.e. CER03, LIS02, etc.).

**Entity Name:** myESDTParmList

Category: Attribute

Object Class: PIDataType

A parameter list used within the inspect to the Data Server, to retrieve the metadata associated to a newly arrived instance of the Data Type.

**Entity Name:** myESDTParmList

Category: Attribute

Object Class: PIDataType

A parameter list used within the inspect to the Data Server, to retrieve the metadata associated to a newly arrived instance of the Data Type.

**Entity Name:** myESDTParmList

Category: Attribute

Object Class: PIDataType

A parameter list used within the inspect to the Data Server, to retrieve the metadata associated to a newly arrived instance of the Data Type.

**Entity Name:** myESDTParmVals

Category: Attribute

Object Class: PIDataGranule

Selected metadata fields associated to the data type required to determine suitability in the production (such as quality info or geophysical attributes).

**Entity Name:** myESDTParmVals

Category: Attribute

Object Class: PIDataGranule

Selected metadata fields associated to the data type required to determine suitability in the production (such as quality info or geophysical attributes).

**Entity Name:** myESDTs

Category: Attribute

Object Class: DsSrWorkingCollection

**Entity Name:** myESDTypes

Category: Attribute

Object Class: DsGeESDTConfiguration

The ESDTs that this data server is configured for. This set of types does not imply that there exist granules for each type but that there are services for each type.

**Entity Name:** myEventEntry

Category: Attribute

Object Class: InHistoryLog

Describes the event

**Entity Name:** myEventID

Category: Attribute

Object Class: DsDeEvent

The identifier for this Event. This identifier along with the event name uniquely identify an Event object.

**Entity Name:** myEventID

Category: Attribute

Object Class: DsSbEvent

This is the event identification number.

**Entity Name:** myEventId

Category: Attribute

Object Class: DsSbRegisteredEvent

Associates this DsSdRegisteredEvent with a DsSdEvent, so that the DsSdEventHandler can find the right DsSdRegisteredEvent when an event is triggered.

**Entity Name:** myEventName

Category: Attribute

Object Class: DsDeEvent

The name of the event. This name must be unique within the event id. For example, there can only be one event named INSERT for the CER02 eventID. However, there can be an INSERT for each unique eventID (i.e. CER02V1.0, CER02V1.1, LIS01, etc.)

**Entity Name:** myEvents

Category: Attribute

Object Class: DsDeESDTEDescriptor

Services of this specific ESDT that can have subscriptions against their invocation. For example, the insert service may be subscribable and the browse service may not be subscribable for the CER07 ESDT.

**Entity Name:** myEventType

Category: Attribute

Object Class: EcUtLoggerRelAMgmt

will hold the event type

**Entity Name:** myExecSet

Category: Attribute

Object Class: DpPrPge

This pointer identifies a reference to a list of executable files (binaries and shell scripts) as well as Status Message Files (SMFs).

**Entity Name:** myExecStatus

Category: Attribute

Object Class: DsDbInterface

Current database command execution status.

**Entity Name:** myExpectedKeywordsList

Category: Attribute

Object Class: DsCdKeywordLocator

**Entity Name:** myExpirationDate

Category: Attribute

Object Class: DsClSubscription

Identifies when this subscription will expire and be removed from the system. The value may be "never" (i.e. the subscription is permanent)

**Entity Name:** myExpirationDate

Category: Attribute

Object Class: DsSbSubscription

Identifies when this subscription will expire and be removed from the system. The value may be "never" (i.e. the subscription is permanent).

**Entity Name:** myExpirationDate

Category: Attribute

Object Class: IoAdAdvertisement\_C

stores the expiration date for the advertisement.

**Entity Name:** myExpirationDateTime

Category: Attribute

Object Class: InRequest

Date/time by which the corresponding ingest request must be completed (i.e., archive insertion complete and response returned to the external data provider).



**Entity Name:** myExpirationDateTime

Category: Attribute

Object Class: InRequest

Date/time by which the corresponding ingest request must be completed (i.e., archive insertion complete and response returned to the external data provider).

**Entity Name:** myExpirationDateTime

Category: Attribute

Object Class: InRequestProcessHeader

Date/time by which the corresponding ingest request must be completed (i.e., archive insertion complete and response returned to the external data provider).

**Entity Name:** myExternalDataProvider

Category: Attribute

Object Class: InExternalDataProviderThreshold

Identifier of the external data provider (e.g., TSDIS) that supplies ingest requests.

**Entity Name:** myExternalDataProvider

Category: Attribute

Object Class: InRequest

Identifier of the external data source providing data to be ingested into ECS.

**Entity Name:** myExternalDataProvider

Category: Attribute

Object Class: InRequestSummaryHeader

Identifier of the external data provider (e.g., TSDIS) associated with an ingest request.

**Entity Name:** myFaxNumber

Category: Attribute

Object Class: IoAdContact\_C

stores the fax phone number of the contact person.

**Entity Name:** myFidelityTime

Category: Attribute

Object Class: GIUR

**Entity Name:** myFieldId

Category: Attribute

Object Class: DpPpTrmmOnBoardAttitudeData

**Entity Name:** myFieldId

Category: Attribute

Object Class: DpPpTrmmScAncillaryData

This parameter when used with DP\_CIO indicates the system file name for the detached SFDU headers.

**Entity Name:** myFieldId

Category: Attribute

Object Class: DpPpTrmmScOaData

This parameter when used with DP\_CIO indicates the system file name for the detached SFDU headers.

**Entity Name:** myFile

Category: Attribute

Object Class: DsCnConfiguration

The file with which this configuration object is associated.

**Entity Name:** myFileClass

Category: Attribute

Object Class: InFileTypeTemplate

Defines the file type further by indicating whether the file contains metadata, science data, or both.

**Entity Name:** myFileId

Category: Attribute

Object Class: DpPpSdpfLevelZeroDatasetFile

System file name for the specific data file described within the File\_spec object.

**Entity Name:** myFileId

Category: Attribute

Object Class: DpPpSdpfLevelZeroProductionData

System file name for the specific data file described within the File\_spec object.

**Entity Name:** myFileId

Category: Attribute

Object Class: DpPpSdpfLevelZeroSfduFile

System file name for the specific data file described within the File\_spec object.

**Entity Name:** myFileId

Category: Attribute

Object Class: DpPpTrmmOnBoardAttitudeData

**Entity Name:** myFileId

Category: Attribute

Object Class: DpPpTrmmScAncillaryData

System file name for the specific data file described within the file specification object.

**Entity Name:** myFileId

Category: Attribute

Object Class: DpPpTrmmScOaData

System file name for the specific data file described within the file specification object.

**Entity Name:** myFileID

Category: Attribute

Object Class: DsStArchivedFile

This attribute is a unique file identifying number.

**Entity Name:** myFileId

Category: Attribute

Object Class: InFile

The unique identifier of the ingest file.

**Entity Name:** myFileID

Category: Attribute

Object Class: InRequestFileInfo

The identifier of the file.

**Entity Name:** myFileIdDpcio

Category: Attribute

Object Class: DpPpSdpfLevelZeroProductionData

This parameter when used with the DP\_CIO indicates the system file name for the detached SFDU headers.

**Entity Name:** myFileIdDpcio

Category: Attribute

Object Class: DpPpSdpfLevelZeroSfduFile

This parameter when used with the DP\_CIO indicates the system file name for the detached SFDU headers.

**Entity Name:** myFileIdList

Category: Attribute

Object Class: InTransferredData

The names of ingest files.

**Entity Name:** myFileListPtr

Category: Attribute

Object Class: DsDdMedia

**Entity Name:** myFileLocation

Category: Attribute

Object Class: DsDdShippingLabel

Name of the file (including path) which contains the shipping Label.

**Entity Name:** myFileLocation

Category: Attribute

Object Class: InFile

Identifies the location the file resides.

**Entity Name:** myFileName

Category: Attribute

Object Class: DsDdPackingSlip

Name of the file containing the packing slip. The file will either be printed for physical shipment, sent electronically with electronic distribution, or handled in some other manner for future distribution options.

**Entity Name:** myFilePath

Category: Attribute

Object Class: DsEsESDT

**Entity Name:** myFileSize

Category: Attribute

Object Class: DpPpSdpfLevelZeroProductionData

This parameter when used with DP\_CIO indicates the length in bytes of the DP\_CIO.

**Entity Name:** myFileSize

Category: Attribute

Object Class: DpPpSdpfLevelZeroSfduFile

This parameter when used with DP\_CIO indicates the length in bytes of the DP\_CIO.

**Entity Name:** myFileSize

Category: Attribute

Object Class: DpPpTrmmOnBoardAttitudeData

**Entity Name:** myFileSize

Category: Attribute

Object Class: DpPpTrmmScAncillaryData

This parameter when used with DP\_CIO indicates the length in bytes of the DP\_CIO.

**Entity Name:** myFileSize

Category: Attribute

Object Class: DpPpTrmmScOaData

This parameter when used with DP\_CIO indicates the length in bytes of the DP\_CIO.

**Entity Name:** myFileSize

Category: Attribute

Object Class: InRequestFileInfo

The size of ingest file.

**Entity Name:** myFileTypeArray

Category: Attribute

Object Class: InDataTypeTemplate

**Entity Name:** myFileTypeArray

Category: Attribute

Object Class: InDataType

This attribute identifies the array that stores the list of file types associated with a specific data type.

**Entity Name:** myFileType

Category: Attribute

Object Class: InFile

Identifies the file type(e.g., metadata file, science data, calibration) of the ingest file.

**Entity Name:** myFileType

Category: Attribute

Object Class: InFileTypeTemplate

This attribute specifies the file type (e.g. metadata, science) of the file type template object.

**Entity Name:** myFileType

Category: Attribute

Object Class: InSourceMCF

This attribute specifies the file type (e.g. metadata, science) associated with the source metadata configuration file.

**Entity Name:** myFileVolume

Category: Attribute

Object Class: InFile

The data volume of the ingest file.

**Entity Name:** myFileVolumeList

Category: Attribute

Object Class: InTransferredData

The file sizes corresponding to the ingest files.

**Entity Name:** myFinalStatus

Category: Attribute

Object Class: InRequestSummaryData

Final error status for the ingest processing of a data granule.

**Entity Name:** myFinishTime

Category: Attribute

Object Class: DsClSubmittedRequest

The date and time on which this request finished.

**Entity Name:** myFirstName

Category: Attribute

Object Class: IoAdContact\_C

stores the first name of the contact person.

**Entity Name:** myFirstUsedSector

Category: Attribute

Object Class: DsStCDROM

This attribute indicates the first used sector on the volume currently mounted in the CDROM.

**Entity Name:** myForecast

Category: Attribute

Object Class: DsEsProductionPlan

**Entity Name:** myForecast

Category: Attribute

Object Class: PlPlanMetadataFile

The number of days time period which the plan covers

**Entity Name:** myForeignKeys

Category: Attribute

Object Class: DsDbAccess

This attribute contains a list of column names which are the primary keys for the tables with which the given CollectableObject is associated. This attribute is assumed to be a one-to-one mapping with the values in myAssociations, and it is further assumed that the order in which the column names appear corresponds with the order of associated tables contained in attribute myAssociations.



**Entity Name:** myFormat

Category: Attribute

Object Class: DsCdCSDT

**Entity Name:** myFormat

Category: Attribute

Object Class: DsCdKeyword

**Entity Name:** myFormat

Category: Attribute

Object Class: DsSdCSDT

This format of the CSDT.

**Entity Name:** myFreeCache

Category: Attribute

Object Class: DsStPullMonitor

This attribute indicates the amount of available (i.e., currently unused) disk space (in KBYTES) in the distributed data cache area.

**Entity Name:** myFreeCache

Category: Attribute

Object Class: DsStStagingMonitor

This attribute indicates the total size of the staging disk cache area.

**Entity Name:** myFreeResources

Category: Attribute

Object Class: DsStResourceManager

This attribute indicates the current number of available devices (i.e., devices which are operational and can be allocated or reserved) in a resource pool.

**Entity Name:** myFreeTextResultsList

Category: Attribute

Object Class: DsCtSearchcommand

The list of URLs returned as a result of a free text query submitted to the COTS search engine.

**Entity Name:** myFTPRunningStatus

Category: Attribute

Object Class: CsFtFTPRelA

Used to indicate the status of the pipe to the FTP program.

**Entity Name:** myGenerationDate

Category: Attribute

Object Class: DpPpSdpfLevelZeroDatasetFile

The time indicates the date and time of the generation of the data by the source system.

**Entity Name:** myGenerationDate

Category: Attribute

Object Class: DpPpSdpfLevelZeroProductionData

This time indicates the date and time of the generation of the data by the source system.

**Entity Name:** myGenerationDate

Category: Attribute

Object Class: DpPpSdpfLevelZeroSfduFile

This time indicates the date and time of the generation of the data by the source system.

**Entity Name:** myGenerationDate

Category: Attribute

Object Class: DpPpTrmmOnBoardAttitudeData

**Entity Name:** myGenerationDate

Category: Attribute

Object Class: DpPpTrmmScAncillaryData

This time indicates the date and time of the generation of the data by the source system.

**Entity Name:** myGenerationDate

Category: Attribute

Object Class: DpPpTrmmScOaData

This time indicates the date and time of the generation of the data by the source system.

**Entity Name:** myGeophysicalParameters

Category: Attribute

Object Class: DsSdGrid

**Entity Name:** myGeoPhysParamList

Category: Attribute

Object Class: DmGwInvRequests

list of geo-physical parameters specified for the inventory search.

**Entity Name:** myGranuleList

Category: Attribute

Object Class: DsGeSummaryProduct

A list of URs that are summarized by this summary product.

**Entity Name:** myGranuleList

Category: Attribute

Object Class: DsNsScienceSoftwareArchivePackage

A list of all the granules that were generated using this science software delivery.

**Entity Name:** myGranuleToDBVector

Category: Attribute

Object Class: DsDbGranuleToDbVector

This attribute holds the mappings of granules to database names.

**Entity Name:** myGranuleUR

Category: Attribute

Object Class: DsNsProductionHistory

The UR for the granule that this production history describes.

**Entity Name:** myGridType

Category: Attribute

Object Class: DsSdGrid

**Entity Name:** myGuideName

Category: Attribute

Object Class: DsEsGuide

**Entity Name:** myGuideURL

Category: Attribute

Object Class: IoAdAdvertisement\_C

stores the URL of the hypertext guide document for the advertisement.

**Entity Name:** myHandle

Category: Attribute

Object Class: DsGeDynamicLibrary

A handle to the library. This is the return value from the OS command to open the library. This handle is used by all other services that operate on the library.

**Entity Name:** myHeaderList

Category: Attribute

Object Class: CsEmMailRelA

Internal list of headers.

**Entity Name:** myHigh

Category: Attribute

Object Class: DsDeRange

This is the upper limit for the range. Any value that is greater than this value is outside of the valid range.

**Entity Name:** myHighDensitySize

Category: Attribute

Object Class: DsStResourcePolicy

This attribute specifies the maximum size (in KBYTES) that can be stored on a single piece of media which is considered to be "Large" in size.

**Entity Name:** myHighWaterMark

Category: Attribute

Object Class: DsStPullMonitor

This attribute indicates the percentage utilization of disk space in the distributed data cache area which determines nominally when cache reclamation operations start.

**Entity Name:** myHighWaterMark

Category: Attribute

Object Class: DsStStagingMonitor

This attribute indicates the percentage utilization of the staging disk cache area which nominally determines the start of space reclamation operations.

**Entity Name:** myHostAddress

Category: Attribute

Object Class: DsCtClient

Internet address of client's host.

**Entity Name:** myHostAddress

Category: Attribute

Object Class: DsSvServer

Internet address of the server host.

**Entity Name:** myHost

Category: Attribute

Object Class: DpPrPge

This attribute identifies the host machine for this instance of the Pge object. There will be a most one instance of this object per host.

**Entity Name:** myHostList

Category: Attribute

Object Class: DsNsScienceSoftwareArchivePackage

The set of hosts that the executable software will run on.

**Entity Name:** myHTMLResultsList

Category: Attribute

Object Class: DsCtSearchcommand

The list of URLs to be packaged in a HTML document which is returned to the WWW client across the HTTP connection.

**Entity Name:** myHTMLVersion

Category: Attribute

Object Class: DsCdHTML

**Entity Name:** myHTTPRequest

Category: Attribute

Object Class: DsCtAcquireCommand

HTTP Get command string. Used to identify the location of the document to return.

**Entity Name:** myID

Category: Attribute

Object Class: DpPrDiskAllocation

This is an internal identifier used to uniquely track individual allocations. The User attribute, conversely, is not unique in that there may be many allocations for a single job.

**Entity Name:** myID

Category: Attribute

Object Class: DpPrResource

This base class attribute is inherited by the resource subclasses to uniquely identify object instances.

**Entity Name:** myID

Category: Attribute

Object Class: DsClSubmittedRequest

The system-wide ID for this submitted request.

**Entity Name:** myID

Category: Attribute

Object Class: DsDdDataItem

Identifier, such as filename, for the data item.

**Entity Name:** myId

Category: Attribute

Object Class: DsMdMetadata

Object Id for a Metadata object.

**Entity Name:** myID

Category: Attribute

Object Class: DsStArchive

This is the ID of the Archive

**Entity Name:** myId

Category: Attribute

Object Class: EcAgEvent

This attribute represents the UUID of this application.

**Entity Name:** myId

Category: Attribute

Object Class: EcUtLoggerRelAMgmt  
will hold id

**Entity Name:** myID

Category: Attribute

Object Class: PlResource

Unique identifier for the resource

**Entity Name:** myImageType

Category: Attribute

Object Class: DsSdImage

The type (bitmap, rastermap etc.,) of the image.

**Entity Name:** myIndexableColumns

Category: Attribute

Object Class: DsDbAccess

This attribute contains a list of column names indicating which of the attributes of the given CollectableObject type are stored separately from the rest of the object. This allows indexes to be built on these fields. It also allows human perusal of the values. It also allows joins on these fields. The fields in this list do not necessarily have indexes built on them, as they may appear hear for one of the latter two reasons.

**Entity Name:** myInFile

Category: Attribute

Object Class: InMetadata

This attribute defines the associated input files.



**Entity Name:** myInFile

Category: Attribute

Object Class: InScienceData

This attribute defines the associated input file.

**Entity Name:** myInfo

Category: Attribute

Object Class: DsCISubmittedRequest

This is the core information for this request.

**Entity Name:** myInfo

Category: Attribute

Object Class: DsSrCommandBase

A pointer to the core command information for this command. (Which is, In OO terms, the implementation for this interface).

**Entity Name:** myInfo

Category: Attribute

Object Class: DsSrRequestBase

A pointer to the core request information for this request. (In OO terms, the implementation for this interface).

**Entity Name:** myIngestPriority

Category: Attribute

Object Class: InExternalDataProviderThreshold

Priority associated with ingest requests from the external data provider.

**Entity Name:** myIngestRequestThreshold

Category: Attribute

Object Class: InSystemThreshold

Site-wide threshold for total allowed number of ongoing ingest requests.

**Entity Name:** myIngestType

Category: Attribute

Object Class: InRequest

The type of data ingest to be performed (e.g., media ingest, network ingest).

**Entity Name:** myIngestVolumeThreshold

Category: Attribute

Object Class: InSystemThreshold

Site-wide threshold for total data volume of all ongoing ingest requests.

**Entity Name:** myIngestVolumeThreshold

Category: Attribute

Object Class: InSystemThreshold

Site-wide threshold for total data volume of all ongoing ingest requests.

**Entity Name:** myInputDataId

Category: Attribute

Object Class: PIDataScheduled

ID of the input data based on the arrival of which the PGE is scheduled to run

**Entity Name:** myInputDataInstanceList List

Category: Attribute

Object Class: PIDPR

**Entity Name:** myInputDataInstanceList

Category: Attribute

Object Class: PIDPR

List describing all the input files required within for the PGE

**Entity Name:** myInputDataTypeList

Category: Attribute

Object Class: PIPGE

List of input data types needed by the PGE

**Entity Name:** myInputDataTypeList

Category: Attribute

Object Class: PIPGE

List of input data types needed by the PGE

**Entity Name:** myInputList

Category: Attribute

Object Class: InDataPreprocessTask

This attribute references the input list which contains the files to be preprocessed for the data preprocess task object.

**Entity Name:** myInputList

Category: Attribute

Object Class: InDataType

This attribute references the input list which contains the files to be preprocessed by the data type object.

**Entity Name:** myInsertionList

Category: Attribute

Object Class: InDataServerInsertionTask

List of files to be inserted into Data Server.

**Entity Name:** myInSourceMCF

Category: Attribute

Object Class: InMetadata

This attribute specifies the associated source metadata configuration file.

**Entity Name:** myInstrument

Category: Attribute

Object Class: PIPGE

Instrument for which the PGE is appropriate

**Entity Name:** myInstrumentName

Category: Attribute

Object Class: DpPpTrmmOnBoardAttitudeData

**Entity Name:** myInstrumentName

Category: Attribute

Object Class: DpPpTrmmOnBoardAttitudeData

**Entity Name:** myInstrumentName

Category: Attribute

Object Class: PIDataType

Instrument name associated with PGE

**Entity Name:** myInstrumentName

Category: Attribute

Object Class: PIDataType

Instrument name associated with PGE

**Entity Name:** myInterfaceConfigList

Category: Attribute

Object Class: DsGeESDT

The list of interface configurations for the publicly available services of the ESDTs.

**Entity Name:** myInternalName

Category: Attribute

Object Class: DsDeScienceParameter

This is the name within the science data information that this parameter is referred as. This allows there to be a name that the user community sees and can use to identify the parameter and a name that the DSS uses. An example of an internal name for "Sea Surface Temperature" might be "SST".

**Entity Name:** myInterval

Category: Attribute

Object Class: DsSbTimer

Identifies how much time the timer should wait until generating the next trigger.

**Entity Name:** myInvESDTRefs

Category: Attribute

Object Class: DmGwInvRequests

list of DmGwInvESDRReferences that are returned as a result of a data server search.

**Entity Name:** myInvSearchRequestList

Category: Attribute

Object Class: DmGwInvRequests

list of DmGwInvSearchRequest pointers. There is one pointer per each data server to be searched.

**Entity Name:** myIPnumber

Category: Attribute

Object Class: DsCtClient

IP address of the client's host.

**Entity Name:** myIPNumber

Category: Attribute

Object Class: DsSvServer

IP number of the server.

**Entity Name:** myItemList

Category: Attribute

Object Class: DsDdPackingSlip

Reference to the distribution list for this distribution. The distribution list is read item by item to create a file which contains a list of all the data items distributed.

**Entity Name:** myKeyFile

Category: Attribute

Object Class: ECSFilePassword

This attribute represents the server keytab file where the server's password is encoded.

**Entity Name:** myKeywextmet

Category: Attribute

Object Class: DsCdKeywordLocator

**Entity Name:** myKeywFilePath

Category: Attribute

Object Class: DsCdKeywordLocator

**Entity Name:** myKeywordLocator

Category: Attribute

Object Class: DsCdCSDT

**Entity Name:** myKeywordResultsList

Category: Attribute

Object Class: DsCtSearchcommand

The list of URLs returned as a result of a keyword search submitted to the DBMS wrapper layer.

**Entity Name:** myKeywordsLocation

Category: Attribute

Object Class: DsCdKeywordLocator

**Entity Name:** mykeywTagRegExp

Category: Attribute

Object Class: DsCdKeywordLocator

**Entity Name:** myLabels

Category: Attribute

Object Class: DsSdSwath

**Entity Name:** mylables

Category: Attribute

Object Class: DsSdPoint

**Entity Name:** myLastName

Category: Attribute

Object Class: IoAdContact\_C

stores the last name of the contact person.

**Entity Name:** myLastSize

Category: Attribute

Object Class: DpPrDiskAllocation

This value represents the latest size recorded for the file specified by the Path attribute. It will be used to compare against the original allocation size to determine if a file is exceeding its expected size.

**Entity Name:** myLatestSWVersion

Category: Attribute

Object Class: IoAdRequiredSW\_C

stores the latest useable version of the software component that is required to access the service.

**Entity Name:** myLength

Category: Attribute

Object Class: DsCdKeyword

**Entity Name:** myLength

Category: Attribute

Object Class: DsSdImage

The length of the image.

**Entity Name:** myLength

Category: Attribute

Object Class: GIBinaryP

This is the length (in bytes) of the data value of this binary parameter.

**Entity Name:** myLevel

Category: Attribute

Object Class: DpPrExecutable

The level of the object can be used to determine if it requires direct execution on the part of the Processing System, or if it is indirectly executed from the PGE itself.

**Entity Name:** myLineBreak

Category: Attribute

Object Class: DsCdCSDT

**Entity Name:** myLineDelimiter

Category: Attribute

Object Class: InPVMetadata

This attribute will define the symbol used to indicate the end of a parameter-value metadata statement.

**Entity Name:** myListClass

Category: Attribute

Object Class: InDataPreprocessList

This attribute identifies whether the list is an input list received from the Request Processing CSC or is a list containing files to be inserted into the Data Server Subsystem.



**Entity Name:** myListCounter

Category: Attribute

Object Class: InRequestList

The number of requests in the Ingest Request List.

**Entity Name:** myListHead

Category: Attribute

Object Class: InRequestList

The first request in the Ingest Request List.

**Entity Name:** myListTail

Category: Attribute

Object Class: InRequestList

The last request in the Ingest Request List.

**Entity Name:** myLocalCallback

Category: Attribute

Object Class: DsClQuery

This attribute identifies the local callback routine to be invoked when any status is returned relative to this query. This attribute is passed to the DsClRequest object which is created from the DsClQuery object. The DsClRequest object will use this information to relate status from the DsClSubmittedRequest to the DsClRequest object. As far as the DsClQuery object is concerned, this is just a pass-through.

**Entity Name:** myLocation

Category: Attribute

Object Class: DpPrDataMap

Indicates where, what path on a local machine that this data granule locates on.

**Entity Name:** myLocation

Category: Attribute

Object Class: DpPrExecutable

The disk location where the executable resides will be determined initially, but may be modified to reflect a change in resource allocations.

**Entity Name:** myLocation

Category: Attribute

Object Class: DpPrPcf

This attribute defines the directory path as defined during the initial disk resource allocation.

**Entity Name:** myLocation

Category: Attribute

Object Class: DsDbAccess

This attribute identifies either the table name (for objects which are stored in a DBMS) or the file (?path) name (for objects which are stored as files).

**Entity Name:** mylocation

Category: Attribute

Object Class: DsSdPoint

**Entity Name:** mylocation

Category: Attribute

Object Class: DsSdRaw

**Entity Name:** myLocation

Category: Attribute

Object Class: DsSdSwath

**Entity Name:** myLocation

Category: Attribute

Object Class: PrPcf

**Entity Name:** myLockCount

Category: Attribute

Object Class: EcUtLoggerRelA

will be used in conjunction with the thread writing mutex to keep a count of locks to the recursive mutex.

**Entity Name:** myLog

Category: Attribute

Object Class: DsSrConnection

The log used to record all activity for this connection.

**Entity Name:** myLogCriteria

Category: Attribute

Object Class: InLogMonitor

The criteria information provided by operation personnel that is to be used for the Ingest History Log information searching.

**Entity Name:** myLogFile

Category: Attribute

Object Class: EcUtLoggerRelA

will be used to hold the name of the log file.

**Entity Name:** myLoggingFlag

Category: Attribute

Object Class: DsSrConnection

Indicates whether activity is currently being logged for this connection.

**Entity Name:** myLoggingStatus

Category: Attribute

Object Class: EcUtLoggerRelAMgmt

Logging status

**Entity Name:** myLogicalID

Category: Attribute

Object Class: PIDataType

Attribute describes the logical id by which this data type is indexed within a PGE

**Entity Name:** myLogicalID

Category: Attribute

Object Class: PIDataTypeReq

The logical id relates to the PGE input identifier for a particular product type. This attribute is required within the SDP toolkit process control interface.

**Entity Name:** myLogicalID

Category: Attribute

Object Class: PIOutputYield

The logical id relates to the PGE output identifier for a particular product type. This attribute is required within the SDP toolkit process control interface.

**Entity Name:** myLogicalID

Category: Attribute

Object Class: PIUserParameters

Id of the user parameter

**Entity Name:** myLogin

Category: Attribute

Object Class: DsDdPushMedia

login information supplied by the user: an account for the node and the password for that account.

**Entity Name:** myLogin

Category: Attribute

Object Class: DsDdPushProcessor

Login name to use at the destination node.

**Entity Name:** myLogName

Category: Attribute

Object Class: InHistoryLog

The name of the ingest history log.

**Entity Name:** myLogName

Category: Attribute

Object Class: InLogMonitor

The name of the log specified by operations personnel for monitoring.

**Entity Name:** myLongBase

Category: Attribute

Object Class: GILongP

Holds the value for this parameter.

**Entity Name:** myLongDAA

Category: Attribute

Object Class: InLongDAA

This is the DAN Acknowledgement data message in detailed format.

**Entity Name:** myLongDDN

Category: Attribute

Object Class: InLongDDN

This is the long DDN (Data Delivery Notice) data message.

**Entity Name:** myLow

Category: Attribute

Object Class: DsDeRange

This is the lower bound for the range. Any value that is less than this value is outside of the valid range.

**Entity Name:** myLowDensitySize

Category: Attribute

Object Class: DsStResourcePolicy

This attribute indicates the maximum size of data (in KBYTES) that can be stored on a single piece of media which is considered to be "Small" in size.

**Entity Name:** myLowWaterMark

Category: Attribute

Object Class: DsStPullMonitor

This attribute indicates the percentage amount of disk space usage in the distribution data cache area which determines when cache reclamation operations nominally cease.

**Entity Name:** myLowWaterMark

Category: Attribute

Object Class: DsStStagingMonitor

This attribute indicates the percentage utilization of the staging disk cache which nominally determines when space reclamation operations cease.

**Entity Name:** myMachine

Category: Attribute

Object Class: DpPrDataMap

Indicated where, what machine this data granule locates on for a particular DPR.

**Entity Name:** myMajorVersionId

Category: Attribute

Object Class: PlApplication

Application major version number

**Entity Name:** myMandatoryFlag

Category: Attribute

Object Class: DsDeMetadataDef

This flag indicates whether or not this metadata attribute is mandatory.

**Entity Name:** myMathOperation

Category: Attribute

Object Class: DsDeMathOp

This attribute contains the representation of the mathematical operation. Valid math operations are "GT", "LT", "EQ", "GE", "LE", and "NE".

**Entity Name:** myMaxDiskSpace

Category: Attribute

Object Class: DpPrComputer

This attribute defines the total amount of local disk space which is available for PGE processing. The amount of disk space that is use by the system is not included in this value.

**Entity Name:** myMaxDiskSpace

Category: Attribute

Object Class: PlComputer

Derived max disk space

**Entity Name:** myMaxFileSize

Category: Attribute

Object Class: EcUtLoggerRelA

Will hold the maximum file size of the file.

**Entity Name:** myMaximumRequests

Category: Attribute

Object Class: InExternalDataProviderThreshold

Maximum number of requests allowed to be proccsed at one time by the external data provider.

**Entity Name:** myMaximumRequests

Category: Attribute

Object Class: InExternalDataProviderThreshold

Maximum number of requests allowed to be proccsed at one time by the external data provider.

**Entity Name:** myMaxMemoryUse

Category: Attribute

Object Class: PlPerformance

Maximum memory required by the PGE during AI&T

**Entity Name:** myMaxNumberMedia

Category: Attribute

Object Class: DsStResourcePolicy

This attribute indicates the maximum number of media that are allowed for a resource for a single distribution or ingest request.

**Entity Name:** myMaxNum

Category: Attribute

Object Class: InFileTypeTemplate

This attribute indicates the maximum acceptable number of files for the file type object.

**Entity Name:** myMaxResources

Category: Attribute

Object Class: DsStResourceManager

This attribute indicates the maximum number of devices in the resource pool. In the case of staging disk it indicates the amount (in KBYTES) of disk space available for workarea allocations and/or reservations.

**Entity Name:** myMaxSize

Category: Attribute

Object Class: DsStPullMonitor

This attribute indicates the size (in KBYTES) of the disk area designated as the "pull" area.

**Entity Name:** myMaxSize

Category: Attribute

Object Class: DsStResourceQueue

This is the maximum size of the Resource Queue.

**Entity Name:** myMaxSize

Category: Attribute

Object Class: DsStStagingDisk

This attribute indicates the maximum size (in KBYTES) of staging disk that can be allocated to the user at any one time.



**Entity Name:** myMaxSize

Category: Attribute

Object Class: DsStStagingMonitor

This attribute indicates the total size (in KBYTES) of the staging disk cache.

**Entity Name:** myMedDensitySize

Category: Attribute

Object Class: DsStResourcePolicy

This attribute specifies the maximum size (in KBYTES) of data that can be stored on a single piece of media which is considered to be "Medium" in size.

**Entity Name:** myMedia

Category: Attribute

Object Class: DsDdDistRequestS

Type of media to be used for the distribution. For release A possible values are CD, 8mm tape, electronic push, electronic pull.

**Entity Name:** myMediaSize

Category: Attribute

Object Class: DsStResource

This attribute indicates the size of the media (i.e., small, medium, large) for this allocation.

**Entity Name:** myMediaType

Category: Attribute

Object Class: DsDdMedia

Holds the type of media, i.e. tape, CDROM, network, source and associated information.

**Entity Name:** myMediaTypes

Category: Attribute

Object Class: DsStResourcePolicy

This attribute indicates the number of different densities of media that can be read/written by a device in the resource pool.

**Entity Name:** myMessageBody

Category: Attribute

Object Class: CsEmMailRelA

Internal copy of the message body.

**Entity Name:** myMetadata

Category: Attribute

Object Class: DsCiTypeInfo

This attribute holds the metadata attributes which apply to all objects of the given type. This metadata is both the core and the product specific metadata for this granule.

**Entity Name:** myMetadata

Category: Attribute

Object Class: DsGeESDT

This is a reference to a metadata object that contains all of the metadata for this instance. This includes core and product specific metadata. This attribute's value gets set by the Fill service. The inspect service uses the metadata object to obtain the values for desired metadata attributes.

**Entity Name:** myMetaDataEditorWindow

Category: Attribute

Object Class: DpPrQaMonitor

This attribute represents the MetaData Editor which the QA position can use to update the QA MetaData associated with a subscribed-to data product. The UpdateMetaData operation will bring up this Editor, allowing the operator to select a subscribed-to data product. The operator can then change the QA MetaData for use by the GetData or VisualizeData operations.

**Entity Name:** myMetadataSpecialization

Category: Attribute

Object Class: InFileTypeTemplate

Specifies the correct InMetadata specialization for the specific data type

**Entity Name:** myMetadataTargetName

Category: Attribute

Object Class: InFileTypeTemplate

Indicates the nomenclature of the target PVL metadata file to be inserted into the data server subsystem.

**Entity Name:** myMetaFile

Category: Attribute

Object Class: DsCtInsertCommand

Associated PVL file containing the metadata to be submitted to the DBMS wrapper layer.

**Entity Name:** myMiddleName

Category: Attribute

Object Class: IoAdContact\_C

stores the middle name of the contact person.

**Entity Name:** myMimeType

Category: Attribute

Object Class: DsCdCSDT

**Entity Name:** myMimeType

Category: Attribute

Object Class: IoAdMimeType\_C

stores the name of the Mime type of the service.

**Entity Name:** myMimeTypeVersion

Category: Attribute

Object Class: DsCdCSDT

**Entity Name:** myMinNum

Category: Attribute

Object Class: InFileTypeTemplate

This attribute indicates the minimum number of files required to be associated with the file type template object.

**Entity Name:** myMinorVersionId

Category: Attribute

Object Class: PlApplication

Software minor version id

**Entity Name:** myMission

Category: Attribute

Object Class: DpPpSdpfLevelZeroDatasetFile

This parameter indicates the mission or investigation which includes the sensors producing the data.

**Entity Name:** myMission

Category: Attribute

Object Class: DpPpSdpfLevelZeroProductionData

This parameter indicates the mission or investigation which includes the sensors producing the data.

**Entity Name:** myMission

Category: Attribute

Object Class: DpPpSdpfLevelZeroSfduFile

This parameter indicates the mission or investigation which includes the sensors producing the data.

**Entity Name:** myMission

Category: Attribute

Object Class: DpPpTrmmOnBoardAttitudeData

**Entity Name:** myMission

Category: Attribute

Object Class: DpPpTrmmScAncillaryData

This parameter indicates the mission or investigation which includes the sensors producing the data.

**Entity Name:** myMission

Category: Attribute

Object Class: DpPpTrmmScOaData

This parameter indicates the mission or investigation which includes the sensors producing the data.

**Entity Name:** myMission

Category: Attribute

Object Class: InRequestSummaryHeader

Name of the science mission (e.g., Landsat 7) for which the data described in the request was generated.

**Entity Name:** myMissionParameters

Category: Attribute

Object Class: DpPpSdpfLevelZeroDatasetFile

Contains mission specific parameters.

**Entity Name:** myMissionParameters

Category: Attribute

Object Class: DpPpSdpfLevelZeroProductionData

Contains mission specific parameters.

**Entity Name:** myMissionParameters

Category: Attribute

Object Class: DpPpSdpfLevelZeroSfduFile

Contains mission specific parameters.

**Entity Name:** myMissionParameters

Category: Attribute

Object Class: DpPpTrmmOnBoardAttitudeData

**Entity Name:** myMissionParameters

Category: Attribute

Object Class: DpPpTrmmScAncillaryData

Contains mission specific parameters.

**Entity Name:** myMissionParameters

Category: Attribute

Object Class: DpPpTrmmScOaData

Contains mission specific parameters.

**Entity Name:** myMonitorCommandWindow

Category: Attribute

Object Class: DpPrQaMonitor

myMonitorCommandWindow represents the main QA Monitor GUI. It will allow the operator to choose the function desired from among subscription submittal and withdrawal, metadata updating, data gathering and data visualization.

**Entity Name:** myMountTime

Category: Attribute

Object Class: DsStResourcePolicy

This attribute specifies the time required in seconds for OPS personnel to mount one piece of media on a device of the resource pool.

**Entity Name:** myName

Category: Attribute

Object Class: DpPrExecutable

The actual executable or Status Message File (SMF) name is identified by this attribute.

**Entity Name:** myName

Category: Attribute

Object Class: DpPrPcf

This is the filename of the Process Control File (PCF) as defined by the Name attribute,

**Entity Name:** myName

Category: Attribute

Object Class: DpPrResource

This base class attribute is inherited by the resource subclasses to provide an identifier which is more meaningful in human terms.

**Entity Name:** myName

Category: Attribute

Object Class: DsCdKeyword

**Entity Name:** myName

Category: Attribute

Object Class: DsDeCoreValid

The name of the core metadata attribute for which this object has validation criteria.

**Entity Name:** myName

Category: Attribute

Object Class: DsDeDD

The name of this data dictionary entry.

**Entity Name:** myName

Category: Attribute

Object Class: DsDeScienceParameter

The name of a science parameter within this data types structure. An example of this might be "Sea Surface Temperature".

**Entity Name:** myName

Category: Attribute

Object Class: DsDeService

The name of a service that this type provides. An example of this is INSERT.

**Entity Name:** myName

Category: Attribute

Object Class: DsDeStaticMetadata

The name of this static metadata attribute.

**Entity Name:** myName

Category: Attribute

Object Class: DsDeValid

The name of the attribute that this object has validation criteria for.

**Entity Name:** myName

Category: Attribute

Object Class: DsGeTypeID

The name of this type. This name along with the version number is enough to uniquely identify this type. An example of a type name is CER03.

**Entity Name:** myName

Category: Attribute

Object Class: DsGeTypeID

The name of this type. This name along with the version number is enough to uniquely identify this type. An example of a type name is CER03.

**Entity Name:** myName

Category: Attribute

Object Class: DsSbEvent

This is the name of the event.



**Entity Name:** myName

Category: Attribute

Object Class: DsSdGrid

**Entity Name:** myName

Category: Attribute

Object Class: DsSdImage

**Entity Name:** myName

Category: Attribute

Object Class: DsSdLookUpTable

**Entity Name:** myname

Category: Attribute

Object Class: DsSdPoint

**Entity Name:** myname

Category: Attribute

Object Class: DsSdRaw

**Entity Name:** myName

Category: Attribute

Object Class: DsSdSwath

**Entity Name:** myName

Category: Attribute

Object Class: DsStArchivedFile

This attribute indicates the name of the archived file.

**Entity Name:** myName

Category: Attribute

Object Class: DsStFile

This attribute indicates the name of the file.

**Entity Name:** myName

Category: Attribute

Object Class: GIPParameter

The name of this parameter.

**Entity Name:** myName

Category: Attribute

Object Class: PIApplication

Application name

**Entity Name:** myName

Category: Attribute

Object Class: PIDataType

Attribute describes the ESDT Name for the data set within the Data Server.

**Entity Name:** myName

Category: Attribute

Object Class: PIGroundEvent

**Entity Name:** myName

Category: Attribute

Object Class: PIResource

The name of the resource

**Entity Name:** myName

Category: Attribute

Object Class: PIUserParameters

Name of the user parameter

**Entity Name:** myName

Category: Attribute

Object Class: PrPcf

**EEntity Name:** myNCPUs

Category: Attribute

Object Class: PIResourceRequirement

The number of CPUs required for a PGE

**Entity Name:** myNewFunction

Category: Attribute

Object Class: DsGeESDTDynamicLibrary

This attribute is used when obtaining a pointer to the function that performs the new operation for the ESDT in this dynamic library. This means that each dynamic library must have a function called newESDT which returns a pointer to the ESDT base class. This is a C function that has been declared with extern "C" ESDT \*newESDT() so that the name does not get mangled when compiled with CC.

**Entity Name:** myNewThreshold

Category: Attribute

Object Class: InThresholdController

The new value for the specified threshold with which the operations personnel requested to replace.

**Entity Name:** myNextBlock

Category: Attribute

Object Class: DsStTape

This attribute indicates the next block on the media which can be read or written to.

**Entity Name:** myNextElement

Category: Attribute

Object Class: DsStStagingDataList

This attribute indicates the next file on the staging data list.

**Entity Name:** myNextFreeDirSector

Category: Attribute

Object Class: DsStCDROM

This attribute indicates the next free directory sector on the volume currently mounted in the CDROM.

**Entity Name:** myNextUR

Category: Attribute

Object Class: GIUR

**Entity Name:** myNominalSize

Category: Attribute

Object Class: PIDataType

Nominal size of the data type

**Entity Name:** myNonScienceMetadata

Category: Attribute

Object Class: DsMdMetadata

The part of the metadata that is internal to the system. It includes bookkeeping information on the scientific data object. (e.g. file archive name and path for a granule)

**Entity Name:** myNoOfBlockInOper

Category: Attribute

Object Class: PIPerformance

Number of input blocks for the PGE during AI&T

**Entity Name:** myNoOfBlockOutOper

Category: Attribute

Object Class: PIPerformance

Number of output blocks for the PGE during AI&T

**Entity Name:** myNoOfInstancesPerPgeRun

Category: Attribute

Object Class: PIDataScheduled

ID of the input data based on the arrival of which the PGE is scheduled to run

**Entity Name:** myNoOfPageFaults

Category: Attribute

Object Class: PIPerformance

Number of PGE page faults for the PGE during AI&T

**Entity Name:** myNoOfSwaps

Category: Attribute

Object Class: PIPerformance

Number of PGE swaps for the PGE during AI&T

**Entity Name:** myNoOfTimeUnitsPerPgeRun

Category: Attribute

Object Class: PITimeScheduled

Number of Units of time for PGE run.

**Entity Name:** myNotifyFlag

Category: Attribute

Object Class: DsSbActionBase

Flag which determines if this action is a notification.

**Entity Name:** myNumberDevices

Category: Attribute

Object Class: DsStResourcePolicy

This attribute specifies the number of physical devices of this type of resource.

**Entity Name:** myNumberFiles

Category: Attribute

Object Class: DsStDirectory

This attribute indicates the number of files that currently exist in the directory.

**Entity Name:** myNumberFiles

Category: Attribute

Object Class: DsStFileDirectory

This attribute indicates the number of current files which have been archived and are resident in the archive.

**Entity Name:** myNumberFiles

Category: Attribute

Object Class: DsStPullMonitor

This attribute indicates the total number of files currently resident in the pull area.

**Entity Name:** myNumberOfChunks

Category: Attribute

Object Class: DmGwInvRequests

stores the number of V0 Chunk responses required.

**Entity Name:** myNumberOfItems

Category: Attribute

Object Class: DsDdMedia

Number of Data Items distributed for this request.

**Entity Name:** myNumberOfUses

Category: Attribute

Object Class: DpPrDataMap

A number indicates how many DPR use(s) this data granule in a day.

**Entity Name:** myNumberOfUses

Category: Attribute

Object Class: GIUR

**Entity Name:** myNumberRequests

Category: Attribute

Object Class: DsStRequestManager

This attribute indicates the number of requests for service which have been received but are still in progress.

**Entity Name:** myNumDataTypes

Category: Attribute

Object Class: DsStArchive

**Entity Name:** myNumVolumes

Category: Attribute

Object Class: DsDdLabeledMedia

The number of volumes of removable media that were created for this request.

**Entity Name:** myNumVolumes

Category: Attribute

Object Class: DsDdPackingSlip

The number of volumes for physical distribution.

**Entity Name:** myObjectFileGroup

Category: Attribute

Object Class: DpPpSdpfLevelZeroDatasetFile

Opens an aggregation of file group parameters; the attributes which characterize a set of data files within the product data.

**Entity Name:** myObjectFileGroup

Category: Attribute

Object Class: DpPpSdpfLevelZeroProductionData

Opens an aggregation of file group parameters; the attributes which characterize a set of data files within the product data.

**Entity Name:** myObjectFileGroup

Category: Attribute

Object Class: DpPpSdpfLevelZeroSfduFile

Opens an aggregation of file group parameters; the attributes which characterize a set of data files within the product data.

**Entity Name:** myObjectFileSpec

Category: Attribute

Object Class: DpPpSdpfLevelZeroDatasetFile

This statement opens an aggregation of file specific parameters: the attributes which characterize a particular data file within a file group. Each file group may contain multiple file specs, one for each specific data file.

**Entity Name:** myObjectFileSpec

Category: Attribute

Object Class: DpPpSdpfLevelZeroProductionData

This statement opens an aggregation of file specific parameters: the attributes which characterize a particular data file within a file group. Each file group may contain multiple file specs, one for each specific data file.



**Entity Name:** myObjectFileSpec

Category: Attribute

Object Class: DpPpSdpfLevelZeroSfduFile

This statement opens an aggregation of file specific parameters: the attributes which characterize a particular data file within a file group. Each file group may contain multiple file specs, one for each specific data file.

**Entity Name:** myObjectIdentifier

Category: Attribute

Object Class: DsDbAccess

This attribute is used for those accesses which require the storing or retrieval of a specific object (i.e. a specific instantiation of the given class). The value in this object is used as a qualifier in selecting from the underlying database.

**Entity Name:** myObjectType

Category: Attribute

Object Class: DsDbAccess

This attribute indicates which of the datasever objects is being handled at this time. The object is known only by it's ancestor type CollectableObject at the time that this object (DsDbAccess) is created. Each CollectableObject must be capable of identifying its type. The value of this attribute allows the DsDbAccess object to know the values for the rest of the attributes. Based on the ObjectType, DsDbAccess can read the corresponding control information (rest of attributes) from the underlying database.

**Entity Name:** myODLInputTree

Category: Attribute

Object Class: DmGwV0Request

stores the internal representation of the ODL message received from the V0 Client.

**Entity Name:** myODLOutputTree

Category: Attribute

Object Class: DmGwV0Request

stores the internal representation of the ODL response message to be delivered to the V0 Client.

**Entity Name:** myOperatingSystem

Category: Attribute

Object Class: DpPrComputer

This attribute defines the machine type and the current version of the operating system which controls it.

**Entity Name:** myOperatingSystem

Category: Attribute

Object Class: PlComputer

The operating system name and version

**Entity Name:** myOperatingSystem

Category: Attribute

Object Class: PlResourceRequirement

The operating system for which a PGE is configured

**Entity Name:** myOrbitRepresentation

Category: Attribute

Object Class: DsSdSwath

**Entity Name:** myOrganizationName

Category: Attribute

Object Class: IoAdContact\_C

stores the organization name of the contact person.

**Entity Name:** myOrganizationName

Category: Attribute

Object Class: IoAdProviderAdvertisement\_C

stores the organization name of the provider.

**Entity Name:** myOstr

Category: Attribute

Object Class: DsCtAcquireCommand

Output stream to write document data.

**Entity Name:** myOutputDataInstanceList

Category: Attribute

Object Class: PIDPR

List describing all the output files to be produced by the PGE

**Entity Name:** myOutputDataType

Category: Attribute

Object Class: PIProductionRequest

Identifies the product desired by the ECS User.

**Entity Name:** myOutputDataTypeList

Category: Attribute

Object Class: PIPGE

List of output data types needed by the PGE

**Entity Name:** myOutputMCFPath

Category: Attribute

Object Class: DsCdKeywordLocator

**Entity Name:** myPackingSlip

Category: Attribute

Object Class: DsDdMedia

Reference to the DsDdPackingSlip object which will create the list of data items which were transferred in this distribution.

**Entity Name:** myParameterDelimiter

Category: Attribute

Object Class: InPVMetadata

This attribute will define the symbol used to delimit the parameter portion of a parameter-value metadata statement.

**Entity Name:** myParameterList

Category: Attribute

Object Class: DsCtSearchcommand

The GIParameterList which represents the query to be submitted to the DBMS wrapper layer. These search parameters are extracted from the WAIS query string.

**Entity Name:** myParameterList

Category: Attribute

Object Class: DsDeService

This parameterList contains the Parameters that are valid for this service. The parameterList parameter names and their types but no values. An example of a parameter for the INSERT service might have the name "METADATAFILE" and the type GIStringP.

**Entity Name:** myParameterList

Category: Attribute

Object Class: DsSrCommandInfo

Designates the parameters values for the service requested.

**Entity Name:** myParentId

Category: Attribute

Object Class: EcUtLoggerRelAMgmt

Will hold parent id

**Entity Name:** myParms

Category: Attribute

Object Class: GIParameterList

The actual list of parameters that comprise this GIParameterList.

**Entity Name:** myPartitionSize

Category: Attribute

Object Class: DpPrDiskPartition

This attribute holds the amount of disk space allocated to the file system. This value is fixed during file system creation.

**Entity Name:** myPartitionSize

Category: Attribute

Object Class: PIDiskPartition

the total partition size

**Entity Name:** myPassword

Category: Attribute

Object Class: CsFtFTPRelA

Used to store the password for the primary host to contact.

**Entity Name:** myPassWord

Category: Attribute

Object Class: DsDbInterface

User password for database connection. It is expected to be set during the Connect() operation.

**Entity Name:** myPasswordValid

Category: Attribute

Object Class: ECSFilePassword

This attribute represents a flag which indicates whether a password is valid or invalid.

**Entity Name:** myPath

Category: Attribute

Object Class: DpPrDiskAllocation

This attribute defines the entire directory path to the file for which this allocation is being made.

**Entity Name:** myPath

Category: Attribute

Object Class: DsDdDistFile

Specification of where the file is located, including device and directory.

**Entity Name:** myPath

Category: Attribute

Object Class: DsDdDistFile

Specification of where the file is located, including device and directory.

**Entity Name:** mypath

Category: Attribute

Object Class: DsStFile

This attribute indicates the full path name of the file.

**Entity Name:** myPathname

Category: Attribute

Object Class: DsStStagingDisk

This is the pathname to the directory associated with this staging disk.

**Entity Name:** myPDFVersion

Category: Attribute

Object Class: DsCdPDF

**Entity Name:** myPermission

Category: Attribute

Object Class: DpPrExecutable

The system permission settings may need to be set by the Processing System following the staging of the executable file or Status Message File (SMF). Note that for the latter, the permission should be set to 400.

**Entity Name:** myPermission

Category: Attribute

Object Class: DpPrPcf

This attribute defines the system permissions which need to be placed on the PCF file once it has been stage to the local storage disk.

**Entity Name:** myPermission

Category: Attribute

Object Class: PrPcf

**Entity Name:** myPermissions

Category: Attribute

Object Class: DsCdCSDT

**Entity Name:** myPermissions

Category: Attribute

Object Class: DsSdCSDT

**Entity Name:** myPerProcessCpu

Category: Attribute

Object Class: DpPrComputer

This attribute defines the per process limit on processing time which may be granted to an individual process. This limit is imposed by the underlying system and may only be increased up to some system defined limit. Any PGE process which exceeds this limit will not run to completion on this platform.

**Entity Name:** myPerProcessRam

Category: Attribute

Object Class: DpPrComputer

This attribute defines the system defined limit on heap space for a single process. No PGE may activate a process which uses more than the amount defined, without risking the failure of that process.

**Entity Name:** myPerProcessRam

Category: Attribute

Object Class: PIComputer

The operating system's allocation of ram per process

**Entity Name:** myPersistenceType

Category: Attribute

Object Class: DsDbAccess

This attribute identifies whether the given CollectableObject is to be stored in a DBMS or in a file.

**Entity Name:** myPGE

Category: Attribute

Object Class: DsGeECSDataProduct

UR of the science software delivery that was used to generate this ECS data product.

**Entity Name:** myPGECPUTime

Category: Attribute

Object Class: PIPerformance

CPU required for the PGE during AI&T

**Entity Name:** myPgeID

Category: Attribute

Object Class: DpPrPge

This attribute is used to uniquely identify the science software which is occupying a particular machine. The same identifier may be used as the value of the PgeID attribute for another instance of this object provided that the value of the Host attribute is different.

**Entity Name:** myPgeID

Category: Attribute

Object Class: PrPge



**Entity Name:** myPGEIdentifier

Category: Attribute

Object Class: PIProductionRequest

Identifies the PGE

**Entity Name:** myPGEJobID

Category: Attribute

Object Class: PIDPR

Identifier returned from the data processing subsystem to define the job

**Entity Name:** myPGENAME

Category: Attribute

Object Class: PIPGE

Name of the PGE

**Entity Name:** myPGEVersion

Category: Attribute

Object Class: PIPGE

Version number of the PGE

**Entity Name:** myPipe

Category: Attribute

Object Class: CsFtFTPRelA

Pipe for sending and receiving data from the FTP client program.

**Entity Name:** myPlanName

Category: Attribute

Object Class: PIPlan

Descriptive name for plan to facilitate plan selection.

**Entity Name:** myPlatform

Category: Attribute

Object Class: PIPGE

Platform for which the PGE is appropriate, may be a list

**Entity Name:** myPollingTimer

Category: Attribute

Object Class: InPollingIngestSession

The time period which indicates how often the Polling Ingest Session should check for the existence of ingest files for ingest processing.

**Entity Name:** myPollingTimer

Category: Attribute

Object Class: InPollingThreshold

Indicates the time period to wait before starting the Ingest Polling.

**Entity Name:** myPoolName

Category: Attribute

Object Class: DsStResourceSchedule

This attribute indicates the name of the resource pool (e.g., Staging disk, CDROM, Archive, Tape).

**Entity Name:** myPortNumber

Category: Attribute

Object Class: DsCtClient

TCP/IP port number of the client.

**Entity Name:** myPortNumber

Category: Attribute

Object Class: DsSvServer

TCP/IP port number on the host to monitor for incoming HTTP requests.

**Entity Name:** myPostScriptVersion

Category: Attribute

Object Class: DsCdPostScript

**Entity Name:** myPredictedAvailability

Category: Attribute

Object Class: PIDataGranule

Predicted time at which the data will be available in ECS, used to determine PGE schedule estimates.

**Entity Name:** myPredictedMethod

Category: Attribute

Object Class: PIDataSource

Describes the method by which the data availability prediction occurs - e.g., routine arrival, arrival at scheduled times, FOS based prediction.

**Entity Name:** myPredictedStart

Category: Attribute

Object Class: PIDPR

Predicted start time from plan activity

**Entity Name:** myPredictedStop

Category: Attribute

Object Class: PIActivity

The predicted end time of an activity.

**Entity Name:** myPrimaryDataSource

Category: Attribute

Object Class: PIDataScheduled

Identifies the source of the data

**Entity Name:** myPrimaryKey

Category: Attribute

Object Class: DsDbAccess

This attribute identifies which of the given CollectableObject's attributes is to be used as a Primary Key for selecting information about this type of object. This attribute will store the DBMS column name of the PK column in table "myLocation".

**Entity Name:** myPriority

Category: Attribute

Object Class: DsDdDistRequestS

Priority at which the distribution request is processed relative to other distribution requests.

**Entity Name:** myPriority

Category: Attribute

Object Class: DsSrRequestInfo

The priority of this request: LOW, NORMAL, HIGH

**Entity Name:** myPriority

Category: Attribute

Object Class: DsStReservation

This attribute indicates the priority of the reservation request.

**Entity Name:** myPriority

Category: Attribute

Object Class: DsStResource

This attribute indicates the priority of the current allocation of the device.

**Entity Name:** myPriority

Category: Attribute

Object Class: PlActivity

Priority of the activity within the plan.

**Entity Name:** myPriority

Category: Attribute

Object Class: PIDPR

Priority for the data processing request is inherited from the production request, but may be modified individually

**Entity Name:** myPriority

Category: Attribute

Object Class: PIGroundEvent

This attribute describes the priority of the Ground Event.

**Entity Name:** myPriority

Category: Attribute

Object Class: PIProductionRequest

User requested priority for the submitted production request.

**Entity Name:** myProcessingEndDateTime

Category: Attribute

Object Class: InRequest

Ending date/time (in standard ECS date/time format) at which the ingest request processing completed (the time immediately prior to deleting the object in the destructor service).

**Entity Name:** myProcessingEndDateTime

Category: Attribute

Object Class: InRequestSummaryHeader

Ending date/time (in standard ECS date/time format) at which the ingest request processing completed (the time immediately prior to deleting the object in the destructor service).

**Entity Name:** myProcessingStartDateTime

Category: Attribute

Object Class: InRequest

Starting date/time (in standard ECS time format) at which ingest processing began (time of creation of the InRequest object).

**Entity Name:** myProcessingStartDateTime

Category: Attribute

Object Class: InRequestSummaryHeader

Starting date/time (in standard ECS time format) at which ingest processing began (time of creation of the InRequest object).

**Entity Name:** myProdReqPriv

Category: Attribute

Object Class: PIUser

Indicates whether the user has privilidges to enter / modify production requests.

**Entity Name:** myProdSchPriv

Category: Attribute

Object Class: PIUser

Indicates whether the user has privilidges to create plans, and to schedule production

**Entity Name:** myProduceTime

Category: Attribute

Object Class: GIUR

**Entity Name:** myProductCollection

Category: Attribute

Object Class: IoAdAdvertisingSrv\_C

stores a pointer to the product advertisement collection.

**Entity Name:** myProductHistory

Category: Attribute

Object Class: DsGeScienceData

Reference to the list of URs for the products that were used to generate this product.

**Entity Name:** myProductId

Category: Attribute

Object Class: DpPpPreprocessingData

Name of the product for identification.

**Entity Name:** myProductInstance

Category: Attribute

Object Class: DpPpSdpfLevelZeroDatasetFile

Serial number of this instance of the SDPF to uniquely identify the data product.

**Entity Name:** myProductInstance

Category: Attribute

Object Class: DpPpSdpfLevelZeroProductionData

Serial number of this instance of the SDPF to uniquely identify the data product.

**Entity Name:** myProductInstance

Category: Attribute

Object Class: DpPpSdpfLevelZeroSfduFile

Serial number of this instance of the SDPF to uniquely identify the data product.

**Entity Name:** myProductInstance

Category: Attribute

Object Class: DpPpTrmmOnBoardAttitudeData

**Entity Name:** myProductInstance

Category: Attribute

Object Class: DpPpTrmmScAncillaryData

Serial number of this instance of the SDPF product.

**Entity Name:** myProductInstance

Category: Attribute

Object Class: DpPpTrmmScOaData

Serial number of this instance of the SDPF product.

**Entity Name:** myProductionPlanList

Category: Attribute

Object Class: DsEsProductionPlan

**Entity Name:** myProductMetadataConfiguration

Category: Attribute

Object Class: DsDeESDTDescriptor

Contains the name, validation information, and type for product specific metadata attributes. Also contains a mapping of these attributes to inventory attributes.

**Entity Name:** myProductName

Category: Attribute

Object Class: DpPpSdpfLevelZeroDatasetFile

Name of the SDPF product which defines the collection of files comprising the product.

**Entity Name:** myProductName

Category: Attribute

Object Class: DpPpSdpfLevelZeroProductionData

Name of the SDPF product which defines the collection of files comprising the product.

**Entity Name:** myProductName

Category: Attribute

Object Class: DpPpSdpfLevelZeroSfduFile

Name of the SDPF product which defines the collection of files comprising the product.



**Entity Name:** myProductName

Category: Attribute

Object Class: DpPpTrmmOnBoardAttitudeData

**Entity Name:** myProductName

Category: Attribute

Object Class: DpPpTrmmScAncillaryData

Name of the SDPF product which defines the collection of files comprising the product.

**Entity Name:** myProductName

Category: Attribute

Object Class: DpPpTrmmScOaData

Name of the SDPF product which defines the collection of files comprising the product.

**Entity Name:** myProductTypeDescription

Category: Attribute

Object Class: IoAdProductAdvertisement\_C

stores a text description of the product type.

**Entity Name:** myProductTypeName

Category: Attribute

Object Class: IoAdProductAdvertisement\_C

stores the product name.

**Entity Name:** myProductURLList

Category: Attribute

Object Class: DmGwProductRequest

list of URs for the data items to be ordered.

**Entity Name:** myProfile

Category: Attribute

Object Class: DsSrClient

A pointer to the profile for this client, obtained from MSS.

**Entity Name:** myProject

Category: Attribute

Object Class: DpPpPreprocessingData

This identifies the name of the project.

**Entity Name:** myProject

Category: Attribute

Object Class: DpPpSdpfLevelZeroDatasetFile

This name identifies the name of the project.

**Entity Name:** myProject

Category: Attribute

Object Class: DpPpSdpfLevelZeroProductionData

This name identifies the name of the project.

**Entity Name:** myProject

Category: Attribute

Object Class: DpPpSdpfLevelZeroSfduFile

This name identifies the name of the project.

**Entity Name:** myProject

Category: Attribute

Object Class: DpPpTrmmOnBoardAttitudeData

**Entity Name:** myProject

Category: Attribute

Object Class: DpPpTrmmScAncillaryData

This name identifies the name of the project.

**Entity Name:** myProject

Category: Attribute

Object Class: DpPpTrmmScOaData

This name identifies the name of the project.

**Entity Name:** myProtocolName

Category: Attribute

Object Class: DsCtClient

Name of the protocol used for the client/server connection. For external connections the protocol will be HTTP V1.0

**Entity Name:** myProtocolName

Category: Attribute

Object Class: DsSvServer

Name of the communication protocol supported by the server.

**Entity Name:** myProtocolVersion

Category: Attribute

Object Class: DsCtClient

Version of the communication protocol used by the client. For external connections the protocol will be HTTP V1.0

**Entity Name:** myProtocolVersion

Category: Attribute

Object Class: DsSvServer

Version of the communication protocol supported by the server.

**Entity Name:** myProviderAccessRestriction

Category: Attribute

Object Class: IoAdProviderAdvertisement\_C

stores a text description of any access restrictions imposed by the provider.

**Entity Name:** myProviderCollection

Category: Attribute

Object Class: IoAdAdvertisingSrv\_C

stores a pointer to the provider advertisement collection.

**Entity Name:** myProviderRole

Category: Attribute

Object Class: IoAdProviderAdvertisement\_C

stores the name of the role performed by the provider of the advertisement.

**Entity Name:** myProxyConnectionOpen

Category: Attribute

Object Class: CsFtFTPRelA

Status bit to indicate if a connection is currently open on the proxy host.

**Entity Name:** myProxyPassword

Category: Attribute

Object Class: CsFtFTPRelA

Used to hold the password for the proxy connection.

**Entity Name:** myProxyRemoteHost

Category: Attribute

Object Class: CsFtFTPRelA

Used to hold the hostname for the proxy connection.

**Entity Name:** myProxyStatus

Category: Attribute

Object Class: CsFtFTPRelA

Used to hold a toggle bit to indicate if commands are directed to the primary host or the proxy host.

**Entity Name:** myProxyUserName

Category: Attribute

Object Class: CsFtFTPRelA

Used to hold the username for the proxy connection.

**Entity Name:** mypthread

Category: Attribute

Object Class: InMetadataTool

This attribute defines the thread the metadata tool object is associated with.

**Entity Name:** myQAStatistics

Category: Attribute

Object Class: DsGeScienceData

Reference to the UR that represents the QA statistics for this data object.

**Entity Name:** myQASubscription

Category: Attribute

Object Class: PIDataType

Captures whether a subscription has been set up for the QA of this data type.

**Entity Name:** myQAThreshold

Category: Attribute

Object Class: PIDataTypeReq

This attribute describes the quality threshold to be applied to the data granules to "approve" their suitability for production before releasing a scheduled PGE. The threshold is specified in terms of the ESDT parameter list of the data type.

**Entity Name:** myQualityOfServiceLevel

Category: Attribute

Object Class: GIUR

**Entity Name:** myQueryableParameters

Category: Attribute

Object Class: DsCITypeInfo

This attribute contains the list of attribute names for ESDT's of this type. This list allows the client software to determine which attributes to use in certain services, such as Inspect.

**Entity Name:** myQuery

Category: Attribute

Object Class: DsCIRequest

This is the query object associated with this request. The query object is needed during a search request because the collector needs to look up the callback for the query after it is called-back by the request when the search status changes.

**Entity Name:** myReceiveFlag

Category: Attribute

Object Class: DsCINotificationReceiver

Indicates whether notifications should be passed to callback; initially FALSE.

**Entity Name:** myRecordSize

Category: Attribute

Object Class: DpPpSdpfLevelZeroDatasetFile

This parameter specifies the record size in bytes for this file.

**Entity Name:** myRecordSize

Category: Attribute

Object Class: DpPpSdpfLevelZeroProductionData

This parameter specifies the record size in bytes for this file.

**Entity Name:** myRecordSize

Category: Attribute

Object Class: DpPpSdpfLevelZeroSfduFile

This parameter specifies the record size in bytes for this file.

**Entity Name:** myRecordSize

Category: Attribute

Object Class: DpPpTrmmOnBoardAttitudeData

**Entity Name:** myRecordSize

Category: Attribute

Object Class: DpPpTrmmScAncillaryData

This parameter specifies the record size in bytes for this file.

**Entity Name:** myRecordSize

Category: Attribute

Object Class: DpPpTrmmScOaData

This parameter specifies the record size in bytes for this file.

**Entity Name:** myRecordSize

Category: Attribute

Object Class: InRequestFileInfo

Indicates the file record size.

**Entity Name:** myReferencePaperName

Category: Attribute

Object Class: DsEsReferencePaper

**Entity Name:** myReferencePapers

Category: Attribute

Object Class: DsGeScienceData

A list of URs for the Reference Papers that describe this science data. Alternatively, this may be a UR for a collection that contains multiple reference papers.

**Entity Name:** myReferenceType

Category: Attribute

Object Class: GIUR

**Entity Name:** myReferenceVector

Category: Attribute

Object Class: DsCIESDTRelance

**Entity Name:** myRemainingBlocks

Category: Attribute

Object Class: DsStTape

This attribute indicates the number of blocks remaining on the media.

**Entity Name:** myRemainingSectors

Category: Attribute

Object Class: DsStCDROM

This attribute indicates the number of unused (i.e., unwritten) sectors remaining on the media.

**Entity Name:** myRemoteHost

Category: Attribute

Object Class: CsFtFTPRelA

Used to store the hostname for the primary machine to contact.



**Entity Name:** myRemoteNode

Category: Attribute

Object Class: DsDdPushMedia

Indicates the node to which data items or tar/cpio archive files of data items will be pushed

**Entity Name:** myRequest

Category: Attribute

Object Class: DpPrDataManager

This attribute contains an address of request that will be sent to DataServer.

**Entity Name:** myRequest

Category: Attribute

Object Class: DsClAction

The request that is currently associated with this action.

**Entity Name:** myRequest

Category: Attribute

Object Class: DsDdMedia

Reference to the DsDdRequestProcessor object which represents this request. Allows access to the information in the request which is not part of the media object.

**Entity Name:** myRequest

Category: Attribute

Object Class: DsDdRequestProcessor

The request processor points back to the distribution request so it can access request attributes. The request process will be designated as a friend of the distribution request class.

**Entity Name:** myRequest

Category: Attribute

Object Class: DsDoCommand

Reference to the associated request.

**Entity Name:** myRequestCriteria

Category: Attribute

Object Class: InStatusMonitor

The criteria information provided by the operations personnel which is to be used for the ingest request searching.

**Entity Name:** myRequester

Category: Attribute

Object Class: DsStReservation

This attribute identifies the reservation requester.

**Entity Name:** myRequestFlag

Category: Attribute

Object Class: DsSbActionBase

Flag which determines if this action is a request.

**Entity Name:** myRequestId

Category: Attribute

Object Class: DsDdDistRequestS

Unique identifier for the request, which is written with any event log messages and so can be used to reconstruct the events that occurred for the given request. The request id is of minimal value while a request is active, because all client software interfaces to the request should be via of the request object; however, once a request completes the object disappears, so the the request id can then be used to trace through the request's audit trail.

**Entity Name:** myRequestID

Category: Attribute

Object Class: InRequest\_C

Identifier of the InRequest object to which this client object communicates.

**Entity Name:** myRequestID

Category: Attribute

Object Class: InRequest\_S

Identifier of the InRequest object to which this server object communicates.

**Entity Name:** myRequestId

Category: Attribute

Object Class: InRequestController

The identifier of the ingest request that is to be updated (e.g., cancel, suspend, resume, change priority).

**Entity Name:** myRequestID

Category: Attribute

Object Class: InRequestFileInfo

Identifier of the InRequest\_S object to which this entry corresponds. This is a primary key.

**Entity Name:** myRequestId

Category: Attribute

Object Class: InRequestProcessData

Identifier of the InRequest\_S object to which this entry corresponds. This is a primary key.

**Entity Name:** myRequestID

Category: Attribute

Object Class: InRequestProcessHeader

Identifier of the InRequest\_S object to which this entry corresponds. This is a primary key.

**Entity Name:** myRequestID

Category: Attribute

Object Class: InRequestSummaryData

Identifier of the InRequest\_S object to which this entry corresponds. This is a primary key.

**Entity Name:** myRequestID

Category: Attribute

Object Class: InRequestSummaryHeader

Identifier of the InRequest\_S object to which this entry corresponds. This is a primary key.

**Entity Name:** myRequestId

Category: Attribute

Object Class: InRequest

The information that uniquely identifies an Ingest Request. Request Identifiers are referenced by Status Requests and other Service Requests that are used to monitor or control the execution of Ingest Requests.

**Entity Name:** myRequestIdList

Category: Attribute

Object Class: InStatusMonitor

The list of ingest requests that satisfies the search criteria specified by the operations personnel for request status monitoring.

**Entity Name:** myRequestList

Category: Attribute

Object Class: DsDdRequestManagerS

Pointer to list of all current distribution requests.

**Entity Name:** myRequestList

Category: Attribute

Object Class: InSession

The InSession keeps track of all the requests associated with the session in the RequestList. Unique information identifying each request is inserted here (e.g, RequestId, SequenceId).

**Entity Name:** myRequestName

Category: Attribute

Object Class: DsDoRequest

Name of this request - taken from the GIParameterList for this request.

**Entity Name:** myRequestPriority

Category: Attribute

Object Class: InRequestProcessHeader

The information that determines the order in which an ingest request will be processed relative to other ingest requests waiting to be processed. The priority is provided by the InExternalDataProvider object class for each external data provider.

**Entity Name:** myRequestPriority

Category: Attribute

Object Class: InRequest

The information that determines the order in which an ingest request will be processed relative to other ingest requests waiting to be processed. The priority is provided by the InExternalDataProvider object class for each external data provider.

**Entity Name:** myRequestProcessor

Category: Attribute

Object Class: DsDdDistRequestS

Specialized request processor whose ServiceRequest service will be invoked to generate the distribution products. The value for this attribute is assigned based upon the media type; e.g., for a media type of CD the DsDdCDProcessor will be used.

**Entity Name:** myRequestStartTime

Category: Attribute

Object Class: DsCtRequest

Date and time of request submission.

**Entity Name:** myRequestState

Category: Attribute

Object Class: InRequestProcessHeader

State of the corresponding ingest request. Values are "Active" and "Complete".

**Entity Name:** myRequestState

Category: Attribute

Object Class: InRequest

State of the corresponding ingest request. Values are "Active" and "Complete".

**Entity Name:** myRequestStatus

Category: Attribute

Object Class: DsCtRequest

Current status of request.

**Entity Name:** myRequestTable

Category: Attribute

Object Class: DsStRequestManager

This attribute identifies the table of outstanding requests.

**Entity Name:** myRequestTimeOut

Category: Attribute

Object Class: DsCtRequest

Date and Time for request to time out.

**Entity Name:** myRequestType

Category: Attribute

Object Class: DsDoRequest

Type of request to be serviced.

**Entity Name:** myRequiredFlag

Category: Attribute

Object Class: InFileTypeTemplate

This attribute indicates whether the data associated with this file type template object is required.

**Entity Name:** myRequiredParameters

Category: Attribute

Object Class: DsDeService

This vector contains the names of parameters that are required for invocation of this Service. These names are a subset of the named parameters in myParameterList.

**Entity Name:** myRequiredSWList

Category: Attribute

Object Class: IoAdSignatureType\_C

stores the list of required software for the service.

**Entity Name:** myRescManPriv

Category: Attribute

Object Class: PIUser

Indicates whether the user has priviledges to enter resource ground events.

**Entity Name:** myReservationRef

Category: Attribute

Object Class: DsStReservation

This attribute identifies the reservation confirmation number for the resource.

**Entity Name:** myReservedResources

Category: Attribute

Object Class: DsStResourceManager

This attribute indicates the current number of reservations for devices in the resource pool. In the case of staging disk, it indicates the total current amount of disk space (in KBYTES) for which there is a reservation.

**Entity Name:** myResolution

Category: Attribute

Object Class: DsSdGrid

**Entity Name:** myResolution

Category: Attribute

Object Class: DsSdImage

The pixel resolution of the image.

**Entity Name:** myresolution

Category: Attribute

Object Class: DsSdPoint

**Entity Name:** myResolution

Category: Attribute

Object Class: DsSdSwath

**Entity Name:** myResource

Category: Attribute

Object Class: DsDdMedia

The name of the resource which is allocate for the transfer of the files.

**Entity Name:** myResourceId

Category: Attribute

Object Class: InResourceIF

The identifier of the allocated resource.

**Entity Name:** myResourceName

Category: Attribute

Object Class: DsStResource

This attribute uniquely identifies the specific device in the resource pool.



**Entity Name:** myResourceType

Category: Attribute

Object Class: DsStReservation

This attribute indicates the kind of resource that is being reserved. Possible values include Staging Disk, Network Resource, 4mm Tape, 8mm Tape and CD-ROM.

**Entity Name:** myResourceType

Category: Attribute

Object Class: DsStResourceManager

This attribute indicates the name of the resource pool.

**Entity Name:** myResourceType

Category: Attribute

Object Class: InResourceIF

The type of resource (e.g., working storage, physical media) to be used for the Ingest processing.

**Entity Name:** myResults

Category: Attribute

Object Class: DsCISubmittedRequest

This is a list of results returned from the execution of a request. The parameters in the list are really other GIParameterList's, one for each command in the request. Each of these is composed of GIParameterList's, one for each ESDT in the collection. It is filled in by the DsSdWorkingCollection.

**Entity Name:** myResultsList

Category: Attribute

Object Class: DsCtSearchcommand

The results set returned from the DBMS wrapper layer. From this list the matching URLs are copied to the keyword results list.

**Entity Name:** myResultVector

Category: Attribute

Object Class: DsMdCatalog

This vector is used to hold instances of DsMdMetadata objects. These objects are created within the GranuleSearch method and represent the result set from the query.

**Entity Name:** myRetryThreshold

Category: Attribute

Object Class: InExternalDataProviderThreshold

Number of retries to perform when a communication failure is encountered with the external data provider.

**Entity Name:** myReturnInformation

Category: Attribute

Object Class: DsDeEvent

This GIParameterList contains the names and types of what data will be provided when the event occurs. For example, an INSERT event's myReturnInformation would include a GIParameter named UR that is of type RWCString. This says that when the event occurs, the ESDT will provide a parameter list with a GIParameter named UR that is of type RWCString and has a value of whatever the new UR is for this new granule.

**Entity Name:** myRewindTime

Category: Attribute

Object Class: DsStResourcePolicy

This operation indicates the time (in seconds) to rewind a single piece of media on a device in the resource pool.

**Entity Name:** myRTFVersion

Category: Attribute

Object Class: DsCdRTF

**Entity Name:** myRunElapsedTime

Category: Attribute

Object Class: PIPerformance

Elapsed time for the PGE during production

**Entity Name:** myRunMaxMemoryUse

Category: Attribute

Object Class: PIPerformance

Maximum memory required by the PGE during production

**Entity Name:** myRunNoOfBlockInOper

Category: Attribute

Object Class: PIPerformance

Number of input blocks for the PGE during production

**Entity Name:** myRunNoOfPageFaults

Category: Attribute

Object Class: PIPerformance

Number of PGE page faults for the PGE during production

**Entity Name:** myRunNoOfSwaps

Category: Attribute

Object Class: PIPerformance

Number of PGE swaps for the PGE during production

**Entity Name:** myRunPGUCPUTime

Category: Attribute

Object Class: PIPerformance

CPU required for the PGE during production

**Entity Name:** myRunSharedMemoryUse

Category: Attribute

Object Class: PIPerformance

Shared memory required by the PGE during production

**Entity Name:** mySatelliteId

Category: Attribute

Object Class: DpPpFdfData

Identifies the satellite the ephemeris is based on.

**Entity Name:** mySatelliteId

Category: Attribute

Object Class: DpPpFdfTrmmDefinitiveOrbitData

Identifies the satellite the ephemeris is based on.

**Entity Name:** mySatelliteId

Category: Attribute

Object Class: DpPpFdfTrmmDefinitiveOrbitData

Identifies the satellite the ephemeris is based on.

**Entity Name:** mySatelliteName

Category: Attribute

Object Class: PIDataType

Satellite name associated to PGE

**Entity Name:** myScheduleFileName

Category: Attribute

Object Class: DsStResourceSchedule

This is the external filename of the resource schedule for all devices in the resource pool.

**Entity Name:** myScienceData

Category: Attribute

Object Class: DsEsReferencePaper

**Entity Name:** myScienceMetadata

Category: Attribute

Object Class: DsMdMetadata

The part of the metadata that is visible to the end users. It is stored as a list of GIParameters containing attribute names and values. Note that a multi-valued attribute is a single entry (GIParameter) in the GIParameterList which points to a GIParameterList for its values.

**Entity Name:** myScienceParameters

Category: Attribute

Object Class: DsCInfo

This attribute holds the Science Parameters from the Descriptor for the ESDTReferences of this type. These are available for the client software to query and use in constructing parameter lists for advertised services.

**Entity Name:** myScienceParameters

Category: Attribute

Object Class: DsDeESDTDescriptor

Specification of the parameters within the data that each granule of this type has. This includes information related to the parameter names, their types and their locations in the granule.

**Entity Name:** myScienceSpecialization

Category: Attribute

Object Class: InFileTypeTemplate

Specifies the correct InScienceData specialization for the specific file type

**Entity Name:** myScienceTargetName

Category: Attribute

Object Class: InFileTypeTemplate

Indicates the nomenclature of the preprocessed science data file

**Entity Name:** mySdpfSystem

Category: Attribute

Object Class: DpPpSdpfLevelZeroDatasetFile

ASCII string specifying the name of the SDPF mission serviced by the mission.

**Entity Name:** mySdpfSystem

Category: Attribute

Object Class: DpPpSdpfLevelZeroProductionData

ASCII string specifying the name of the SDPF mission service by the mission.

**Entity Name:** mySdpfSystem

Category: Attribute

Object Class: DpPpSdpfLevelZeroSfduFile

ASCII string specifying the name of the SDPF mission service by the mission.

**Entity Name:** mySearchCallback

Category: Attribute

Object Class: DsCIESDTReferenceCollector

This attribute is for specifying the local callback for a query.

**Entity Name:** mySearchConstraints

Category: Attribute

Object Class: IoAdAdvertisingCollection\_C

**Entity Name:** mySecondsOfDayForEphemerisEnd

Category: Attribute

Object Class: DpPpFdfData

The seconds of day count.

**Entity Name:** mySecondsOfDayForEphemerisEnd

Category: Attribute

Object Class: DpPpFdfTrmmDefinitiveOrbitData

The seconds of day count.

**Entity Name:** mySecondsOfDayForEphemerisEnd

Category: Attribute

Object Class: DpPpFdfTrmmDefinitiveOrbitData

The seconds of day count.

**Entity Name:** mySecondsOfDayForEphemerisStart

Category: Attribute

Object Class: DpPpFdfData

The seconds of day count.

**Entity Name:** mySecondsOfDayForEphemerisStart

Category: Attribute

Object Class: DpPpFdfTrmmDefinitiveOrbitData

The seconds of day count.

**Entity Name:** mySecondsOfDayForEphemerisStart

Category: Attribute

Object Class: DpPpFdfTrmmDefinitiveOrbitData

The seconds of day count.

**Entity Name:** mySecurityProtocol

Category: Attribute

Object Class: DsCtClient

Name of the security protocol used by the client.

**Entity Name:** mySecurityProtocol

Category: Attribute

Object Class: DsSvServer

Name of the security protocol used by the server. Needs to be compatible with the client security protocol for a secure connection.

**Entity Name:** mySecurityProtocolVersion

Category: Attribute

Object Class: DsCtClient

Version of the client's security protocol.

**Entity Name:** mySecurityProtocolVersion

Category: Attribute

Object Class: DsSvServer

Version of the security protocol used by the server.

**Entity Name:** mySeparator

Category: Attribute

Object Class: InPVMetadata

This attribute will define the symbol used to separate the parameter from the value in the parameter-value metadata statement

**Entity Name:** mySequenceID

Category: Attribute

Object Class: InRequestProcessHeader

The SequenceId identifies each of the control messages for a given request. The sequence number is first extracted from the DAN, then all the control messages (e.g, DAA,DRA,DRR...) need to contain the same sequence number for a given request.

**Entity Name:** mySequenceId

Category: Attribute

Object Class: InRequest

The SequenceId identifies each of the control messages for a given request. The sequence number is first extracted from the DAN, then all the control messages (e.g, DAA,DRA,DRR...) need to contain the same sequence number for a given request.

**Entity Name:** mySequenceId

Category: Attribute

Object Class: InRequest

The SequenceId identifies each of the control messages for a given request. The sequence number is first extracted from the DAN, then all the control messages (e.g, DAA,DRA,DRR...) need to contain the same sequence number for a given request.



**Entity Name:** mySequenceId

Category: Attribute

Object Class: InRequest

The SequenceId identifies each of the control messages for a given request. The sequence number is first extracted from the DAN, then all the control messages (e.g, DAA,DRA,DRR...) need to contain the same sequence number for a given request.

**Entity Name:** mySequenceNumber

Category: Attribute

Object Class: DpPpSdpfLevelZeroDatasetFile

Sequence number created by SDPF to uniquely identify the data product.

**Entity Name:** mySequenceNumber

Category: Attribute

Object Class: DpPpSdpfLevelZeroProductionData

Sequence number created by SDPF to uniquely identify the data product.

**Entity Name:** mySequenceNumber

Category: Attribute

Object Class: DpPpSdpfLevelZeroSfduFile

Sequence number created by SDPF to uniquely identify the data product.

**Entity Name:** mySequenceNumber

Category: Attribute

Object Class: DpPpTrmmOnBoardAttitudeData

**Entity Name:** mySequenceNumber

Category: Attribute

Object Class: DpPpTrmmOnBoardAttitudeData

**Entity Name:** mySequenceNumber

Category: Attribute

Object Class: DpPpTrmmScAncillaryData

Sequence number created by SDPF to uniquely identify the data product.

**Entity Name:** mySequenceNumber

Category: Attribute

Object Class: DpPpTrmmScOaData

Sequence number created by SDPF to uniquely identify the data product.

**Entity Name:** myServer

Category: Attribute

Object Class: DsCtClient

Reference to the clients associated server.

**Entity Name:** myServer

Category: Attribute

Object Class: DsDoRequest

Reference to the associated server for this request.

**Entity Name:** myServerName

Category: Attribute

Object Class: DsDbInterface

Server name for database connection (e.g. SYBASE for default Sybase server). It is expected to be set in the Connect() operation.

**Entity Name:** myServerName

Category: Attribute

Object Class: DsDoServer

Name of the server object.

**Entity Name:** myServerVersion

Category: Attribute

Object Class: DsDoServer

Version of the server running.

**Entity Name:** myServiceClass

Category: Attribute

Object Class: IoAdServiceAdvertisement\_C

stores the name of the service class for the advertised service.

**Entity Name:** myServiceCollection

Category: Attribute

Object Class: IoAdAdvertisingSrv\_C

stores a pointer to the service advertisement collection.

**Entity Name:** myServiceName

Category: Attribute

Object Class: DsSrCommandInfo

Indicates the name of the desired service.

**Entity Name:** myServiceName

Category: Attribute

Object Class: GIUR

**Entity Name:** myServiceTypeName

Category: Attribute

Object Class: IoAdServiceType\_C

stores the name of the service type.

**Entity Name:** myServiceUR

Category: Attribute

Object Class: IoAdServiceAdvertisement\_C

stores the universal reference for the service.

**Entity Name:** mySessionCount

Category: Attribute

Object Class: InServer

The total number of sessions running under the Ingest Server.

**Entity Name:** mySessionGWBH

Category: Attribute

Object Class: InSession

Session's binding handle with the Gateway.

**Entity Name:** mySessionID

Category: Attribute

Object Class: InRequestProcessHeader

Identifier of the InSession object to which the InRequest object corresponding to this entry is associated.

**Entity Name:** mySessionId

Category: Attribute

Object Class: InRequest

The identifier of the session associated with the ingest request.

**Entity Name:** mySessionId

Category: Attribute

Object Class: InSession

The information that uniquely identifies the session.

**Entity Name:** mySessionState

Category: Attribute

Object Class: InSession

The state in which the ingest request is in (e.g, data transferring state).

**Entity Name:** mySharedMemoryUse

Category: Attribute

Object Class: PIPerformance

Shared memory required by the PGE during AI&T

**Entity Name:** myShell

Category: Attribute

Object Class: DpPrExecutable

For objects which are shell scripts, as is expected for the main PGE, this shell may need to be explicitly invoked as part of the job command that the COTS Scheduler issues. This attribute does not apply to binary executables and Status Message Files (SMFs).

**Entity Name:** myShell

Category: Attribute

Object Class: DpPrPge

This attribute defines the Processing shell which activates the science software's outer PGE shell. The default shell is provided by the SDP Toolkit.

**Entity Name:** myShell

Category: Attribute

Object Class: PrPge

**Entity Name:** myShippingLabel

Category: Attribute

Object Class: DsDdLabeledMedia

Reference to the shipping label object which will create the label containing the requestor's name and shipping address for use in the shipment of the media.

**Entity Name:** myShortDAA

Category: Attribute

Object Class: InShortDAA

This is the short DAA (DAN Acknowledgement) data message.

**Entity Name:** myShortDDN

Category: Attribute

Object Class: InShortDDN

Short Data Delivery Notice (DDN) data message.

**Entity Name:** mySignatureAttributes

Category: Attribute

Object Class: IoAdSignatureType\_C

stores the list of signature attributes for the service.

**Entity Name:** mySize

Category: Attribute

Object Class: DpPrDiskAllocation

The value represents the size specified for the original allocation request. It will be used to compare against the actual size of the file represented by this allocation to check for an unexpected increase in size.

**Entity Name:** mySize

Category: Attribute

Object Class: DsCdCSDT

**Entity Name:** mySize

Category: Attribute

Object Class: DsCIESDTRreference

This number of MB that the underlying granule would occupy if the ESDT that this reference points to was externalized.

**Entity Name:** mySize

Category: Attribute

Object Class: DsDdDistRequestS

Total size of the data to be distributed in the request. Due to addressing limits (of 32-bit architecture), the units for this count may not be bytes, but may be some TBD unit such as kilobytes.

**Entity Name:** mySize

Category: Attribute

Object Class: DsGeESDT

The size in bytes of this ESDT. This figure is based on the ESDT if it were externalized.

**Entity Name:** mySize

Category: Attribute

Object Class: DsSdCSDT

The block size of the CSDT

**Entity Name:** mysize

Category: Attribute

Object Class: DsSdRaw

**Entity Name:** mySize

Category: Attribute

Object Class: DsSdSwath

**Entity Name:** mySize

Category: Attribute

Object Class: DsStArchivedFile

This attribute indicates the size (in KBYTES) of the archived file.

**Entity Name:** mySize

Category: Attribute

Object Class: DsStFile

This attribute indicates the size of the file (in KBYTES).

**Entity Name:** mySize

Category: Attribute

Object Class: DsStReservation

This attribute indicates the amount of data that is anticipated to be transferred by the reserved resource when the reservation becomes active.

**Entity Name:** mySize

Category: Attribute

Object Class: DsStStagingDisk

This attribute indicates the size (in KBYTES) of the staging disk allocated.

**Entity Name:** mySleepTime

Category: Attribute

Object Class: DsStPullMonitor

This attribute indicates the time (in seconds) that the Distribution Cache Monitor sleeps before starting cache reclamation (i.e., deleting expired files).

**Entity Name:** mySleepTime

Category: Attribute

Object Class: DsStStagingMonitor

This attribute indicates the time in seconds that the staging disk monitor will sleep between the start of space reclamation operations.

**Entity Name:** mySource

Category: Attribute

Object Class: DsStNetworkResource

This attribute identifies the source machine for the network data transfer.



**Entity Name:** mySourceCode

Category: Attribute

Object Class: DsNsScienceSoftwareArchivePackage

The source code (ASCII text) of the delivered algorithm package. This will include the programs, header files, and make files.

**Entity Name:** mySourceDirectory

Category: Attribute

Object Class: DsDdElectronicMedia

Directory local to distribution processing in which a tar or cpio file will be created if necessary for the request.

**Entity Name:** mySourceId

Category: Attribute

Object Class: DpPpPreprocessingData

The source ID of the file.

**Entity Name:** mySourceMCF

Category: Attribute

Object Class: InFileTypeTemplate

Specifies the correct InSourceMCF object for the each file type

**Entity Name:** mySpaceCraftDataModeIndicator

Category: Attribute

Object Class: DpPpFdfData

The spacecraft data mode indicator is a mission dependent designation of the kind of data. The meaning of the data mode indicator for FDF products will be standardized.

**Entity Name:** mySpaceCraftDataModeIndicator

Category: Attribute

Object Class: DpPpFdfTrmmDefinitiveOrbitData

The spacecraft data mode indicator is a mission dependent designation of the kind of data. The meaning of the data mode indicator for FDF products will be standardized.

**Entity Name:** mySpaceCraftDataModeIndicator

Category: Attribute

Object Class: DpPpFdfTrmmDefinitiveOrbitData

The spacecraft data mode indicator is a mission dependent designation of the kind of data. The meaning of the data mode indicator for FDF products will be standardized.

**Entity Name:** mySpaceCraftInfo

Category: Attribute

Object Class: DpPpEphemerisData

Name and information about the spacecraft.

**Entity Name:** mySpaceCraftInfo

Category: Attribute

Object Class: DpPpFdfData

Information about the spacecraft.

**Entity Name:** mySpaceCraftInfo

Category: Attribute

Object Class: DpPpFdfTrmmDefinitiveOrbitData

Information about the spacecraft.

**Entity Name:** mySpaceCraftInfo

Category: Attribute

Object Class: DpPpLevelZeroData

Name and information about the spacecraft.

**Entity Name:** mySpaceCraftInfo

Category: Attribute

Object Class: DpPpTrmmOnBoardAttitudeData

**Entity Name:** mySpaceCraftInfo

Category: Attribute

Object Class: DpPpTrmmOnBoardAttitudeData

**Entity Name:** mySQLQuery

Category: Attribute

Object Class: DsMdCatalog

This is a simple character string buffer used to hold the sql command that is derived from the Query request.

**Entity Name:** mySSAP

Category: Attribute

Object Class: DsGeECSDaDataProduct

The reference to the Delivered Algorithm Package (DAP) that was used to generate this ECS data product.

**Entity Name:** myStagingData

Category: Attribute

Object Class: DpPrDataManager

List of Data\_map entries that are being staged at DataServer.

**Entity Name:** myStartDate

Category: Attribute

Object Class: DpPpFdfData

Start date of the ephemeris file.

**Entity Name:** myStartDate

Category: Attribute

Object Class: DpPpFdfTrmmDefinitiveOrbitData

Start date of the ephemeris file.

**Entity Name:** myStartDate

Category: Attribute

Object Class: DpPpFdfTrmmDefinitiveOrbitData

Start date of the ephemeris file.

**Entity Name:** myStartDate

Category: Attribute

Object Class: DsEsProductionPlan

**Entity Name:** myStartDate

Category: Attribute

Object Class: DsStResourceSchedule

This attribute indicates the start time and date of the current view of the resource schedule. This time and date are changed appropriately on a daily basis.

**Entity Name:** myStartTime

Category: Attribute

Object Class: DsStReservation

This attribute indicates the start time and date of the reservation.

**Entity Name:** myStartTime

Category: Attribute

Object Class: PIDataGranule

The start time and date of the data.

**Entity Name:** myStartTime

Category: Attribute

Object Class: PIPlanMetadataFile

The start date of the plan

**Entity Name:** myStartTime

Category: Attribute  
Object Class: PIPlan  
Start time for the plan

**Entity Name:** myState

Category: Attribute  
Object Class: DpPrPge  
The state attribute maintains the last known state of the PGE object. Internal activation of the CheckStatus operation will update this value on a periodic basis.

**Entity Name:** myState

Category: Attribute  
Object Class: DpPrResource  
This base class attribute is inherited by the resource subclasses to define the last known operating state of each object instance.

**Entity Name:** myState

Category: Attribute  
Object Class: DsDbInterface  
Current database connection state.

**Entity Name:** myState

Category: Attribute  
Object Class: DsDdDistRequestS  
Request states identified in the level 4 requirements are pending, active, waiting for shipment, and shipped. An additional state of suspended is added to support the ability to suspend a request. Pending request are requests which have been received but for which a resource (media) to which to write the data is not yet available. The state changes to active when the resource becomes available, and remains active until the generation of all output media is complete, at which time the state changes to waiting to be shipped. The state changes to shipped upon operator notification to the software that the media have been physically shipped to the requestor.

**Entity Name:** myState

Category: Attribute

Object Class: PrPge

**Entity Name:** myStateName

Category: Attribute

Object Class: IoAdContact\_C

stores the state name of the address of the contact person.

**Entity Name:** myStaticMetadata

Category: Attribute

Object Class: DsDeESDTEDescriptor

**Entity Name:** myStatus

Category: Attribute

Object Class: DpPrDataMap

Indicates the status of data that currently stored in DataBase. The possible values are: STAGING, LOCAL, NONE.

**Entity Name:** myStatus

Category: Attribute

Object Class: DsCiEDTDriptor

The status attribute captures status information about activities that are performed on this instance.

**Entity Name:** myStatus

Category: Attribute

Object Class: DsCiESDTRreference

**Entity Name:** myStatus

Category: Attribute

Object Class: DsCiESDTRreferenceCollector

This attribute allows the object to maintain information on current status.

**Entity Name:** myStatus

Category: Attribute

Object Class: DsCIQuery

This attribute allows the object to maintain information on current status.

**Entity Name:** myStatus

Category: Attribute

Object Class: DsCISubmittedRequest

The current status of the request, updated as the request moves through the data server and executes. A mirror of the status field in the real request.

**Entity Name:** myStatus

Category: Attribute

Object Class: DsCISubscriptionCollector

This attribute allows the object to maintain information on current status.

**Entity Name:** myStatus

Category: Attribute

Object Class: DsCITypeInfo

This attribute allows the object to maintain information on current status.

**Entity Name:** myStatus

Category: Attribute

Object Class: DsDeESDTEDescriptor

**Entity Name:** myStatus

Category: Attribute

Object Class: DsSrConnection

The current status of this connection.

**Entity Name:** myStatus

Category: Attribute

Object Class: DsSrWorkingCollection

The current status of this collection.

**Entity Name:** myStatus

Category: Attribute

Object Class: DsStResource

This attribute gives the current status of the resource. Valid values are on-line, off-line, reserved, periodic maintainance, remedial maintenance.

**Entity Name:** myStopTime

Category: Attribute

Object Class: PIDataGranule

The stop time and date of the data.

**Entity Name:** myStopTime

Category: Attribute

Object Class: PIDataGranule

The stop time and date of the data.

**Entity Name:** myStreamList

Category: Attribute

Object Class: DmGwV0BrowseRequest

stores the list of stream objects which will receive the browse data from the data server.

**Entity Name:** myStreetName

Category: Attribute

Object Class: IoAdContact\_C

stores the street name of address of the contact person.



**Entity Name:** myStringBase

Category: Attribute

Object Class: GIStringP

This is the value of this string parameter.

**Entity Name:** myString

Category: Attribute

Object Class: PIResourceRequirement

The string required by the PGE

**Entity Name:** myStuff

Category: Attribute

Object Class: DsDbAccess

This attribute represents the given CollectableObject type in binary. This attribute is not human readable, can not be indexed, and can not be used in joins.

**Entity Name:** mySubmittedFlag

Category: Attribute

Object Class: DsClRequest

Indicates whether this request has been submitted.

**Entity Name:** mySubmittedFlag

Category: Attribute

Object Class: DsClSubscription

Flag which shows whether the subscription has been submitted or not.

**Entity Name:** mySubmittedRequest

Category: Attribute

Object Class: DsSrRequestBase

The DsClSubmittedRequest that is associated with this request. Value is NULL until one is created/found.

**Entity Name:** mySubmitTime

Category: Attribute

Object Class: DsClSubmittedRequest

The date and time on which this request was submitted.

**Entity Name:** mySubmitTime

Category: Attribute

Object Class: DsStReservation

This is the time that the reservation request is submitted.

**Entity Name:** mySubscriptionFile

Category: Attribute

Object Class: PlDataType

File required by the receiver communications software to provide persistence store for the messages so that messages are captured in case of software failure.

**Entity Name:** mySubscriptionQueue

Category: Attribute

Object Class: PlDataType

A unique name associated to the communications queue used to receive subscription notification from the data server.

**Entity Name:** mySummaryList

Category: Attribute

Object Class: DsGeECSDataProduct

Reference to the list of URs that contain summary products for this ECS data product.

**Entity Name:** mySupplierName

Category: Attribute

Object Class: PlDataSource

Identifies the supplier of the data.

**Entity Name:** mySwathType

Category: Attribute

Object Class: DsSdSwath

**Entity Name:** mySWName

Category: Attribute

Object Class: IoAdRequiredSW\_C

stores the name of the software component.

**Entity Name:** mySWUR

Category: Attribute

Object Class: IoAdRequiredSW\_C

stores the universal reference of the software component storage location.

**Entity Name:** mySysAllocation

Category: Attribute

Object Class: DpPrDiskPartition

This derived attribute will maintain the amount of disk resources which are, by default, allocated to the system on startup. These resources are, in effect, reserved for the duration of the system's activation.

**Entity Name:** mySysAlloction

Category: Attribute

Object Class: PIDiskPartition

the size of allocation of the partition for system usage

**Entity Name:** mySystemLog

Category: Attribute

Object Class: DsDoClient

Reference to the system log for exception reporting and logging.

**Entity Name:** mySystemLog

Category: Attribute

Object Class: DsDoServer

Reference to the associated log file for fault and error logging.

**Entity Name:** mySystemLog

Category: Attribute

Object Class: DsSrClient

Identifies the log that is used by DsSdClient to log all activity by the object.

**Entity Name:** mySystemLog

Category: Attribute

Object Class: DsSrServer

Used to log general system activities.

**Entity Name:** myTapeId

Category: Attribute

Object Class: DpPpFdfData

The tape identifier is always "standard" and is stored as the characters STANDARD.

**Entity Name:** myTapeId

Category: Attribute

Object Class: DpPpFdfTrmmDefinitiveOrbitData

The tape identifier is always "standard" and is stored as the characters STANDARD.

**Entity Name:** myTapeId

Category: Attribute

Object Class: DpPpFdfTrmmDefinitiveOrbitData

The tape identifier is always "standard" and is stored as the characters STANDARD.

**Entity Name:** myTarget

Category: Attribute

Object Class: DpPrExecutable

This defines the required machine and operating system combination required to execute this process. A null value indicates that the entity is capable of being run on any platform. This value will be used to determine alternate resources for execution if the initially allocated resource ever fails.

**Entity Name:** myTaskNumber

Category: Attribute

Object Class: InDataType

This attribute specifies the task number of the data type object

**Entity Name:** myTelephoneNumber

Category: Attribute

Object Class: IoAdContact\_C

stores the telephone number of the contact person.

**Entity Name:** myTemplateFlag

Category: Attribute

Object Class: PlGroundEvent

This attribute describes whether the ground event is to be saved as a template description of a ground events. Ground Events with this attribute True will be retained in the PDPS database. Those with this attribute as False will automatically be deleted a month after the completion date of the Ground Event.

**Entity Name:** myTemplateName

Category: Attribute

Object Class: DsEsESDT

**Entity Name:** myTemplateVersion

Category: Attribute

Object Class: DsEsESDT

**Entity Name:** myTestOperational

Category: Attribute

Object Class: PIPGE

Indicates if the PGE's status is test or operational

**Entity Name:** myText

Category: Attribute

Object Class: DsSbActionBase

Defines text of an action.

**Entity Name:** myThresholdType

Category: Attribute

Object Class: InThresholdController

Indicates the type of threshold that is to be replaced. The types of ingest thresholds consist of: 1) ingest request threshold--maximum request allowed to be processed concurrently, 2) data volume threshold--maximum data volume allowed to be processed concurrently, and 3) data transfer retry threshold--number of transfer retry attempts when failure occurred.

**Entity Name:** myTimeBase

Category: Attribute

Object Class: GITimeP

This is the value of this time parameter.

**Entity Name:** mytime

Category: Attribute

Object Class: DsSdPoint

**Entity Name:** myTime

Category: Attribute

Object Class: DsSdSwath

**Entity Name:** myTimeInitiated

Category: Attribute

Object Class: InDataType

This attribute indicates the time that data type object was created.

**Entity Name:** myTimeOfSubmission

Category: Attribute

Object Class: DsDdDistRequestS

Time when the Submit service was invoked upon the request.

**Entity Name:** myTimeOut

Category: Attribute

Object Class: DsSrConnection

The time when this connection will automatically expire unless activity is detected.

**Entity Name:** myTimeoutInterval

Category: Attribute

Object Class: DsSrConnection

The amount of time (in seconds) after which this connection will terminate if no activity is detected.

**Entity Name:** myTimeSystemIndicator

Category: Attribute

Object Class: DpPpFdfData

The time system (atomic time, universal time coordinated (UTC)) used in the ephemeris file.

**Entity Name:** myTimeSystemIndicator

Category: Attribute

Object Class: DpPpFdfTrmmDefinitiveOrbitData

The time system (atomic time, universal time coordinated (UTC)) used in the ephemeris file.

**Entity Name:** myTimeUnits

Category: Attribute

Object Class: PTimeScheduled

Units of time for PGE run frequency.

**Entity Name:** myToList

Category: Attribute

Object Class: CsEmMailRelA

Internal list of recipients of the message.

**Entity Name:** myTotalCpu

Category: Attribute

Object Class: DpPrComputer

This attribute represents the actual number of individual processors which may be applied to the processing of one or more PGEs. Only individual processors may be allocated to the processing effort for a single PGE.

**Entity Name:** myTotalDataGranules

Category: Attribute

Object Class: InRequestSummaryHeader

Total number of granules associated with an ingest request. This value is determined by counting the number of data granule entries in the ingest request.

**Entity Name:** myTotalDataVolume

Category: Attribute

Object Class: InDataTransferTask

The total data volume of ingest files transmitted.

**Entity Name:** myTotalFileCount

Category: Attribute

Object Class: DpPpSdpfLevelZeroDatasetFile

This parameter indicates the total number of files for this product.



**Entity Name:** myTotalFileCount

Category: Attribute

Object Class: DpPpSdpfLevelZeroProductionData

This parameter indicates the total number of files for this product.

**Entity Name:** myTotalFileCount

Category: Attribute

Object Class: DpPpSdpfLevelZeroSfduFile

This parameter indicates the total number of files for this product.

**Entity Name:** myTotalFileCount

Category: Attribute

Object Class: InRequestSummaryHeader

Total number of files identified for ingest in the request.

**Entity Name:** myTotalFileCount

Category: Attribute

Object Class: InRequest

Total number of files identified for ingest in the request.

**Entity Name:** myTotalRam

Category: Attribute

Object Class: DpPrComputer

The attribute defines the total RAM configuration for the object instance. This value is used as a course guage when selecting a computing platform, if a specific platform is not chosen, whereas the per process RAM setting is considered to be a hard limit.

**Entity Name:** myTotalRam

Category: Attribute

Object Class: PlComputer

The total Ram for the computer

**Entity Name:** myTotalRetryCounter

Category: Attribute

Object Class: InDataTransferTask

The total number of data transfer retry attempts performed.

**Entity Name:** myTotalSize

Category: Attribute

Object Class: DsStStagingDataList

This attribute indicates the total size (in KBYTES) of all files currently in staging disk cache.

**Entity Name:** myTransferRate

Category: Attribute

Object Class: DsStResourcePolicy

This attribute specifies the transfer rate in KBYTES per second of a device in the resource pool.

**Entity Name:** myType = enum { DsCdUnknownTy,DsCdASCIITy,  
DsCdHTMLTy,DsCdPDFTY,DsCdRTFTy,DsCdPSTy};

Category: Attribute

Object Class: DsCdTypeID

**Entity Name:** myType

Category: Attribute

Object Class: DpPrDiskAllocation

This attribute defines whether the disk space was allocated for system files or user i.e., science software files.

**Entity Name:** myType

Category: Attribute

Object Class: DsCdCSDT

**Entity Name:** myType

Category: Attribute

Object Class: DsDeCoreValid

An enumerated value that identifies the type of this attribute. Valid types include string, date, time, short, long, char, and double.

**Entity Name:** myType

Category: Attribute

Object Class: DsDeESDTEDescriptor

The specific data type that this ESDT Descriptor defines.

**Entity Name:** myType

Category: Attribute

Object Class: DsDeMetadataDef

This indicates the type of this metadata attribute. The valid values for this attribute are enumerated with the default being a STRING.

**Entity Name:** myType

Category: Attribute

Object Class: DsDeStaticMetadata

This indicates the type of this metadata attribute. The valid values for this attribute are enumerated with the default being a STRING.

**Entity Name:** myType

Category: Attribute

Object Class: DsGeESDT

Contains the type of the instance of an Earth Science Data Type object.

**Entity Name:** myType

Category: Attribute

Object Class: DsMdMetadata

Type of the metadata object. The metadata object can be for collection, granular and document object. It helps to identify the associated type of the object.

**Entity Name:** myType

Category: Attribute

Object Class: DsSbSubscription

Stores the type of this subscription, i.e. whether it is a one-time only or repeating subscription.

**Entity Name:** myTypeID

Category: Attribute

Object Class: DsCIDescriptor

Reference to an object that uniquely identifies the specific type of this descriptor.

**Entity Name:** myTypeID

Category: Attribute

Object Class: DsEsGuideTypeID

Guide Type ID used to distinguish between different types of guide Document.

**Entity Name:** myTypeID

Category: Attribute

Object Class: DsEsProductionPlanTypeID

Production Plan used to distinguish between different types of Production Plans.

**Entity Name:** myTypeID

Category: Attribute

Object Class: DsEsReferencePaperTypeID

High level type ID used to distinguish between the main document types. Currently this includes Guides, Algorithm Descriptions, Reference Papers and Production plans.

**Entity Name:** myTypeID

Category: Attribute

Object Class: DsEsTypeID

**Entity Name:** myTypeID

Category: Attribute

Object Class: DsGeESDTDynamicLibrary

The ESDT type information which is used to determine which dynamic library to load. Each type has its own dynamic linked library implementation.

**Entity Name:** myTypeInfo

Category: Attribute

Object Class: DsCIESDTReference

A pointer to an object which contains information related to all ESDT references of the same type.

**Entity Name:** myTypeInfo

Category: Attribute

Object Class: DsCIESDTReferenceVector

This attribute holds all the information specific to a given type of ESDT. "Type" can mean product type, or newly-created type, as in the case of a subsetted ESDT.

**Entity Name:** myUncompressedSize

Category: Attribute

Object Class: DsDdDataItem

Size of the object before it was compressed.

**Entity Name:** myUnusedData

Category: Attribute

Object Class: DpPrUnusedData

List of Data\_Map entries that not being used (i.e. entries with NumberOfUses = 0) and subject to be deleted from DataBase.

**Entity Name:** myUpdatedAttributes

Category: Attribute

Object Class: DsMdMetadata

Updated attribute list of the metadata object. This is used for performance enhancement in updating partial objects. It is constructed/expanded during the update operation and used by the DsMdCatalog class to figure out which attributes got updated and issue command to update only those attribute in the database.

**Entity Name:** myUpdateType

Category: Attribute

Object Class: InRequestController

Identifies the type of update to be performed on an ingest request. The types of ingest request updates consist of: cancel, suspend, resume, and change priority.

**Entity Name:** myUR

Category: Attribute

Object Class: DsCIESDTRreference

The unique reference that is assigned to this ESDT reference.

**Entity Name:** myUR

Category: Attribute

Object Class: DsGeESDT

Universal reference for this ESDT. This is either given upon construction, obtained from the given metadata, or generated during an insert.

**Entity Name:** myUR

Category: Attribute

Object Class: PIDataGranule

Universal Reference by which to reference the granule within the data server.

**Entity Name:** myURid

Category: Attribute

Object Class: DpPrDataMap

Identifier of an UR.

**Entity Name:** myURL

Category: Attribute

Object Class: DsEsESDT

**Entity Name:** myURL

Category: Attribute

Object Class: IoAdMimeType\_C

stores the URL of the service to be accessed.

**Entity Name:** myUserAllocation

Category: Attribute

Object Class: DpPrDiskPartition

This derived attribute maintains the current amount of disk resources which are presently allocated for the use of science processing.

**Entity Name:** myUserAllocation

Category: Attribute

Object Class: PIDiskPartition

the size of allocation of the partition for production usage

**Entity Name:** myUser

Category: Attribute

Object Class: DpPrDiskAllocation

This attribute holds the value of the identifier specified in the original allocation request and represents the job that is associated with the file defined by the Path attribute.

**Entity Name:** myUser

Category: Attribute

Object Class: DsClSubmittedRequest

The user ID of the user who submitted the request.

**Entity Name:** myUserId

Category: Attribute

Object Class: DsSbSubscription

Identifies the user that submitted the subscription.

**Entity Name:** myUserInfo

Category: Attribute

Object Class: DmGwProductRequest

stores the list of user information (e.g. e-mail address) needed for a product order.

**Entity Name:** myUserInfo

Category: Attribute

Object Class: DsClSubscription

Client information, provided by client software.

**Entity Name:** myUserInfo

Category: Attribute

Object Class: DsDdDistRequestS

Information identifying the entity (user, DAAC, etc.) which requested the distribution.

**Entity Name:** myUserInfo

Category: Attribute

Object Class: DsDdShippingLabel

Reference to the object containing the profile of the requestor. Name and shipping address of the requestor are needed.

**Entity Name:** myUserName

Category: Attribute

Object Class: CsFtFTPRelA

Used to hold the username for the primary account.

**Entity Name:** myUserName

Category: Attribute

Object Class: DsDbInterface

User id for database connection. It is expected to be set during the Connect() operation.



**Entity Name:** myUserName

Category: Attribute

Object Class: PIUser

The ECS user name for the user.

**Entity Name:** myV0MesageId

Category: Attribute

Object Class: DmGwV0Request

stores the V0 Message Id from myODLInputTree.

**Entity Name:** myV0Monitor

Category: Attribute

Object Class: DmGwV0Request

stores the V0 Monitor information from myODLInputTree.

**Entity Name:** myV0Version

Category: Attribute

Object Class: DmGwV0Request

stores the V0 Version information from myODLInputTree.

**Entity Name:** myValid

Category: Attribute

Object Class: DsDeCoreValid

Contains an object that has the criteria for validating this attribute.

**Entity Name:** myValids

Category: Attribute

Object Class: DsDeESDtdDescriptor

Valid values for each parameter that will potentially be validated.

**Entity Name:** myValue

Category: Attribute

Object Class: DsCdKeyword

**Entity Name:** myValue

Category: Attribute

Object Class: DsDeMetadataDef

**Entity Name:** myValue

Category: Attribute

Object Class: DsDeStaticMetadata

This attribute contains the value of this static metadata entry. This value is by definition the same for all granules of this data type.

**Entity Name:** myValueDelimiter

Category: Attribute

Object Class: InPVMetadata

This attribute will define the symbol used to delimit the value part of a parameter-value metadata statement.

**Entity Name:** myvector

Category: Attribute

Object Class: DsSdPoint

**Entity Name:** myVersion

Category: Attribute

Object Class: DsCdCSDT

**Entity Name:** myVersion

Category: Attribute

Object Class: DsGeTypeID

The version number of this ESDT. Version numbers are needed because an ESDT of the same name may have several implementations.

**Entity Name:** myVersion

Category: Attribute

Object Class: DsGeTypeID

The version number of this ESDT. Version numbers are needed because an ESDT of the same name may have several implementations.

**Entity Name:** myVersionNo

Category: Attribute

Object Class: DsSdCSDT

**Entity Name:** myVersionNumber

Category: Attribute

Object Class: InSourceMCF

This attribute identifies the version number of the source configuration file.

**Entity Name:** myVolume

Category: Attribute

Object Class: DsStArchivedFile

This attribute indicates the name of the tape volume on which the file was archived.

**Entity Name:** myVolumeThreshold

Category: Attribute

Object Class: InExternalDataProviderThreshold

Maximum volume of data allowed across all ongoing ingest request submitted by an external data provider.

**Entity Name:** myWAISQuery

Category: Attribute

Object Class: DsCtSearchcommand

WAIS query to be executed. The query string is copied from the QUERY\_STRING environmental passed through the CGI interface call. The query may be keyword or free text.

**Entity Name:** myWhetherCompressed

Category: Attribute

Object Class: DsDdDataItem

Whether the object is compressed.

**Entity Name:** myWidth

Category: Attribute

Object Class: DsSdImage

The width of the image.

**Entity Name:** myWinEndTime

Category: Attribute

Object Class: PlGroundEvent

This attribute describes the end time of the window of opportunity for when the Ground Event may be planned

**Entity Name:** myWinStartTime

Category: Attribute

Object Class: PlGroundEvent

This attribute describes the start time of the window of opportunity for when the Ground Event may be planned

**Entity Name:** myYield

Category: Attribute

Object Class: PlOutputYield

Describes the number of data granules produced from the Data Processing Request. These are assumed to be evenly distributed in time across the acquisition processing time of the DPR.

**Entity Name:** myZipCode

Category: Attribute

Object Class: IoAdContact\_C

stores the zip code of the address of the contact person.

**Entity Name:** name

Category: Attribute

Object Class: Association

This attribute represents the nomenclature for an individual collection of system data.

**Entity Name:** name

Category: Attribute

Object Class: Attachment

This attribute represents the nomeclature used to identify a profiled resource.

**Entity Name:** name

Category: Attribute

Object Class: LibraryFile

This attribute represents the nomenclature for an individual collection of system data.

**Entity Name:** name

Category: Attribute

Object Class: MsAcGuestUserReq

This attribute represents the name of the guest user.

**Entity Name:** name

Category: Attribute

Object Class: MsUsProfile

This attribute represents the the name of the user.

**Entity Name:** name

Category: Attribute

Object Class: ResourceProfile

This attribute represents the nomenclature used to identify a profiled resource.

**Entity Name:** name

Category: Attribute

Object Class: SoftwareLibrary

This attribute represents the nomenclature for an individual collection of system data.

**Entity Name:** name

Category: Attribute

Object Class: View

This attribute represents the nomenclature for an individual collection of system data.

**Entity Name:** NameOfDtObj

Category: Attribute

Object Class: CIDtDesktop\_Object

Desktop Object Name

**Entity Name:** nextTime

Category: Attribute

Object Class: MsMdScheduleEntry

the next scheduled time for this log file to be transferred

**Entity Name:** NNTPHost

Category: Attribute

Object Class: CsBBMailRelA

Will hold the name of the NNTP host to send the message to.

**Entity Name:** NorthBoundingCoordinate

Category: Attribute

Object Class: DmGwBoundingCoordinates

Northernmost latitude of the data collection spatial coverage

**Entity Name:** NumberOfObjects

Category: Attribute

Object Class: CIdtIconic

Number of DesktopObjects in the Iconic Display

**Entity Name:** oid

Category: Attribute

Object Class: MsPmEvent

This attribute specifies the object identification of the attribute for which a threshold value has been exceeded.

**Entity Name:** organization

Category: Attribute

Object Class: MsAcGuestUserReq

This attribute represents the the organization the user is affiliated to.

**Entity Name:** organization

Category: Attribute

Object Class: MsMdAggregateLogFile

The organization of the contact person

**Entity Name:** organization

Category: Attribute

Object Class: MsUsProfile

This attribute represents the the organization the user is affiliated to.

**Entity Name:** orientationMode

Category: Attribute

Object Class: DpPpAttitudePacket

The spacecraft orientation mode.

**Entity Name:** OriginatingCenter

Category: Attribute

Object Class: DmGwDataCollection

The data center from where DIF for the data collection has originated. This attribute is used by V0 for GCMD search. It is equivalent to the V0 ORG\_CENTER attribute.

**Entity Name:** osName

Category: Attribute

Object Class: EcAgEvent

This attribute the name of the operating system on this host.

**Entity Name:** osVersion

Category: Attribute

Object Class: EcAgEvent

This attribute represents the version of the operating system on this host.

**Entity Name:** ourCellName

Category: Attribute

Object Class: EcUtLoggerRelA

will hold the cell name.

**Entity Name:** ourCollectorVector

Category: Attribute

Object Class: DsCiDescriptor

Reference to a static vector of collectors. Each collector is connected to a data server. Upon construction, the descriptor must check to see if there is a collector connected to its data server. If so, the descriptor add itself to that collectors list of items. If not, the descriptor creates a collector that talks to the desired data server and adds it to the static vector collector set.

**Entity Name:** ourCollectorVector

Category: Attribute

Object Class: DsCiESDTReference

A static vector of ESDT collectors. Each ESDT reference is collected by an ESDT collector. The collector vector is used to allow creation of an ESDT reference without first establishing a collector.



**Entity Name:** ourCollectorvector

Category: Attribute

Object Class: DsClSubscription

Static vector of pointers to DsClSubscriptionCollector objects, one per dataserver.

**Entity Name:** ourCoreValid

Category: Attribute

Object Class: DsDeESDtdDescriptor

**Entity Name:** ourIPAddress

Category: Attribute

Object Class: EcUtLoggerRelA

will be used to hold the ip address of the local machine

**Entity Name:** ourOSName

Category: Attribute

Object Class: EcUtLoggerRelA

will hold the OS name

**Entity Name:** ourOSVersion

Category: Attribute

Object Class: EcUtLoggerRelA

will be used to hold the os name and version

**Entity Name:** ourSynchMutex

Category: Attribute

Object Class: EcUtLoggerRelA

mutex to protect internal integrity.

**Entity Name:** param

Category: Attribute

Object Class: Pthread

Parameter passed to thread when thread is started

**Entity Name:** ParameterName

Category: Attribute

Object Class: DmGwGeophysicalParameter

Name of the geophysical parameter that the data collection references.

**Entity Name:** parentId

Category: Attribute

Object Class: EcAgEvent

This attribute represents the UUID of the parent process of this application.

**Entity Name:** p

Category: Attribute

Object Class: Pthread

Priority to run the thread(Pthread\_pri\_min, Pthread\_pri\_low, Pthread\_pri\_mid, Pthread\_pri\_high, Pthread\_pri\_max).

**Entity Name:** PlanSelectionWindow

Category: Attribute

Object Class: PIProductionPlannersUI

**Entity Name:** PlatformName

Category: Attribute

Object Class: DmGwSensorPlatform

Name of the platform where the sensor used for the data collection was housed.

**Entity Name:** point of contact

Category: Attribute

Object Class: ResourceProfile

This attribute represents the name of a designated individual associated with the profiled resource.

**Entity Name:** previousEphemerisRecord

Category: Attribute

Object Class: DpPpEphemerisRecords

The ephemeris record preceding the current ephemeris record in the data quality processing queue.

**Entity Name:** previousPacket

Category: Attribute

Object Class: DpPpAttitudePackets

The attitude packet preceding the current packet in the data quality processing queue.

**Entity Name:** priority

Category: Attribute

Object Class: MsTtEntry

the priority assigned by the support staff, valid values are : Low : the system's capabilities are not seriously compromised. Medium : a portion of the system's capabilities have are affected or are non-functional High : a large degree of the system's capabilities are affected or are non-functional

**Entity Name:** problem

Category: Attribute

Object Class: ResourceChangeRequest

This attribute represents the narrative description of the circumstances justifying a configuration change.

**Entity Name:** problemLongDescription

Category: Attribute

Object Class: MsTtEntry

a detailed description of the problem

**Entity Name:** problemShortDescription

Category: Attribute

Object Class: MsTtEntry

a brief (1 line) description of the problem

**Entity Name:** proc

Category: Attribute

Object Class: Pthread

Procedure to be executed when thread is started

**Entity Name:** ProcessingLevel

Category: Attribute

Object Class: DmGwDataCollection

This attribute reflects the classification of the science data processing level, which defines in general terms the characteristics of the output of the processing performed. This is equivalent to V0 PROCESSING\_LEVEL attribute.

**Entity Name:** procId

Category: Attribute

Object Class: EcAgEvent

This attribute is the ID of the process which sends out the event.

**Entity Name:** ProductFtpAvailable

Category: Attribute

Object Class: DmGwDataCollection

It indicates whether or not the data collection is available through FTP. It is same as V0 FTP\_PRODUCT\_AVAILABLE.

**Entity Name:** productName

Category: Attribute

Object Class: MsMdAggregateLogFile

Generic names of data files

**Entity Name:** progName

Category: Attribute

Object Class: EcAgEvent

This attribute represents the name of the program in the application package.

**Entity Name:** projectName

Category: Attribute

Object Class: MsAcGuestUserReq

This attribute represents the name of the organization the user is affiliated with.

**Entity Name:** projectName

Category: Attribute

Object Class: MsUsProfile

This attribute represents the name of the organization the user is affiliated with.

**Entity Name:** projectPl

Category: Attribute

Object Class: MsAcGuestUserReq

This attribute represents the name of the PI for the project.

**Entity Name:** projectPl

Category: Attribute

Object Class: MsUsProfile

This attribute represents the name of the PI for the project.

**Entity Name:** promotionLevel

Category: Attribute

Object Class: LibraryFile

This attribute code identifies the lifecycle stage that the contents of a library file has reached.

**Entity Name:** proposal

Category: Attribute

Object Class: ResourceChangeRequest

This attribute is the narrative description of the proposed change.

**Entity Name:** publicationDate

Category: Attribute

Object Class: DocumentProfile

This attribute represents the date associated with a document.

**Entity Name:** qacLists

Category: Attribute

Object Class: DpPpAttitudeProcessingSet

This is a set of pointers to the QAC tables, a pointer to each QAC list retrieved from a Level Zero Housekeeping file.

**Entity Name:** qacTable

Category: Attribute

Object Class: DpPpQacList

This table contains the QAC flags referenced by sequential record number as ordered in the Level Zero Housekeeping dataset.

**Entity Name:** qaFlag

Category: Attribute

Object Class: DpPpAttitudePacket

The data quality flag for the attitude.

**Entity Name:** qaFlag

Category: Attribute

Object Class: DpPpEphemerisRecord

The data quality summary flag for the ephemeris.

**Entity Name:** qaParams

Category: Attribute

Object Class: DpPpAttitudeProcessingSet

These are the quality assurance parameters that define tolerances for the data quality check. Quantities outside these tolerances are said to have bad quality.

**Entity Name:** qaParams

Category: Attribute

Object Class: DpPpFdfProcessingSet

These are the quality assurance parameters that define tolerances for the data quality check. Quantities outside these tolerances are said to have bad data quality.

**Entity Name:** QueryType

Category: Attribute

Object Class: DsCIQuery

This attribute controls the scope of the query. DsTQueryType is an enum, where the possible query types are Inventory and WorkingCollection. Issuing a query against the inventory results in a search of the Inventory object. Issuing a query against the WorkingCollection results in a refinement of the existing collection. Issuing a query against an empty WorkingCollection will return null.

**Entity Name:** rc

Category: Attribute

Object Class: EcAgEvent

This attribute represents the return code from the failed function call.

**Entity Name:** recordNumber

Category: Attribute

Object Class: DpPpAttitudePacket

The record number of the attitude packet in the sequence of packets found in the Level Zero Housekeeping dataset.

**Entity Name:** recordSize

Category: Attribute

Object Class: MsMdAggregateLogFile

The size of record in this file

**Entity Name:** relatedCCR

Category: Attribute

Object Class: MsTtEntry

a related CCR if it is determined that a CCR is necessary

**Entity Name:** relatedResourceList

Category: Attribute

Object Class: MsTtEntry

the resource(s) to which this problem is related (hardware and software)

**Entity Name:** relatedTroubleTicketList

Category: Attribute

Object Class: MsTtEntry

a list of trouble tickets related to this instance

**Entity Name:** releaseAssigned

Category: Attribute

Object Class: ResourceChangeRequest

This attribute represents the code for the ECS release in which a proposed change is targeted for implementation.

**Entity Name:** release

Category: Attribute

Object Class: BaselineProfile

This attribute represents the identity of the ECS system release with which the baseline is associated.



**Entity Name:** releaseDate

Category: Attribute

Object Class: ResourceProfile

This attribute represents the date the profiled resource was released to production.

**Entity Name:** RequestId

Category: Attribute

Object Class: InRequestInfo

The identifier of the request.

**Entity Name:** resolutionActions

Category: Attribute

Object Class: ResourceChangeRequest

This attribute represents the list of actions associated with resolving a system non-conformance.

**Entity Name:** resolutionActionStatus

Category: Attribute

Object Class: ResourceChangeRequest

This attribute represents the stage reached in accomplishing an action associated with resolving a system non-conformance.

**Entity Name:** ResultTimestamp

Category: Attribute

Object Class: DmGwGranuleIdURMap

Timestamp when the result was returned to the V0 client. It is used in purging the mapping after certain period of time.

**Entity Name:** RscID

Category: Attribute

Object Class: PhysicalConfigurationManager

the unique ID assigned to each resource

**Entity Name:** RscInstallationDate

Category: Attribute

Object Class: PhysicalConfigurationManager  
the installation date of the resource

**Entity Name:** RscLocation

Category: Attribute

Object Class: PhysicalConfigurationManager  
the location of the resource

**Entity Name:** RscManufacturer

Category: Attribute

Object Class: PhysicalConfigurationManager  
the manufacturer of the resource

**Entity Name:** RscModel

Category: Attribute

Object Class: PhysicalConfigurationManager  
the model of the resource

**Entity Name:** RscName

Category: Attribute

Object Class: PhysicalConfigurationManager  
the name of the resource

**Entity Name:** RscProtocol

Category: Attribute

Object Class: PhysicalConfigurationManager  
the protocol of the resource

**Entity Name:** RscPurchaseDate

Category: Attribute

Object Class: PhysicalConfigurationManager  
the purchase date of the resource

**Entity Name:** RscSerialNumber

Category: Attribute

Object Class: PhysicalConfigurationManager  
the serial number of the resource

**Entity Name:** RscStatus

Category: Attribute

Object Class: PhysicalConfigurationManager  
the status of the resource. This will be either be up, down, marginal, managed or unmanaged

**Entity Name:** RscType

Category: Attribute

Object Class: PhysicalConfigurationManager  
the type of the resource

**Entity Name:** s

Category: Attribute

Object Class: Pthread

Scheduling type(FIFO - first in first out, RR - round robin, FG\_NP - foreground non portable,  
BG\_NP - background non portable)

**Entity Name:** ScheduledEndTime

Category: Attribute

Object Class: PlActivePlan

The end date and time for the portion of the plan entered into the data processing subsystem scheduler.

**Entity Name:** ScheduledStartTime

Category: Attribute

Object Class: PIActivePlan

The start date and time for the portion of the plan entered into the data processing subsystem scheduler.

**Entity Name:** SchedulingPeriod

Category: Attribute

Object Class: PIProductionPlannersUI

**Entity Name:** scope

Category: Attribute

Object Class: ResourceChangeRequest

This attribute represents the range of system baselines affected by a proposed change.

**Entity Name:** scope

Category: Attribute

Object Class: ResourceProfile

This attribute represents the classification of a profiled resource according to the number of sites where it is deployed.

**Entity Name:** SensorName

Category: Attribute

Object Class: DmGwSensorPlatform

Name of the sensor or instrument used for collecting the data collection.

**Entity Name:** SessionID

Category: Attribute

Object Class: InSessionInfo

The identifier of the Ingest Session.

**Entity Name:** shipAddr

Category: Attribute

Object Class: MsAcGuestUserReq

This attribute represents the address that products ordered by the user are shipped to.

**Entity Name:** shipAddr

Category: Attribute

Object Class: MsUserProfile

This attribute represents the address that products for this user are shipped to.

**Entity Name:** sitesAffected

Category: Attribute

Object Class: ResourceChangeRequest

This attribute is the collection of names of ECS sites affected by a proposed change.

**Entity Name:** size

Category: Attribute

Object Class: LibraryFile

This attribute represents the number of bytes a file contains.

**Entity Name:** size

Category: Attribute

Object Class: Pthread

Size of the stack for the thread

**Entity Name:** sizeLimit

Category: Attribute

Object Class: MsMdConfigurationEntry

the size threshold at which the log file is to be transferred

**Entity Name:** sourceVersions

Category: Attribute

Object Class: BuildRecord

This attribute represents the collection of information identifying the version of source files used in constructing a build.

**Entity Name:** SouthBoundingCoordinate

Category: Attribute

Object Class: DmGwBoundingCoordinates

Southernmost latitude of the data collection spatial coverage

**Entity Name:** specification

Category: Attribute

Object Class: View

This attribute represents a conditional expression for qualifying library objects for inclusion in a view.

**Entity Name:** specificTrapId

Category: Attribute

Object Class: MsTrap

This attribute specifies the specific Id of the enterprise-specific traps (discussed in the MsFlAction Class)

**Entity Name:** spikeThreshold

Category: Attribute

Object Class: DpPpQaParameters

The maximum tolerable deviation of an ephemeris point from the normal trend.

**Entity Name:** StartDate

Category: Attribute

Object Class: DmGwDataCollection

This attribute is the beginning date and time of the data collection temporal coverage.

**Entity Name:** startTime

Category: Attribute

Object Class: MsMdAggregateLogFile

the starting time of the period covered by the aggregate

**Entity Name:** status

Category: Attribute

Object Class: BaselineProfile

This attribute represents the code that identifies whether a baseline is in test, in production, or inactive.

**Entity Name:** Status

Category: Attribute

Object Class: DmGwV0Requests

Current status of the message

**Entity Name:** status

Category: Attribute

Object Class: MsTtEntry

the current status, valid values are : New : indicates the trouble ticket has just been submitted by a user Assigned : indicates the trouble ticket has been assigned to a member of the support staff In-Process : indicates a support staff member has received the trouble ticket as in the process of determining or implementing the solution. Closed : indicates the trouble ticket has been closed Archived : indicates the trouble ticket has reached archival age (i.e. should no longer be reported on, and is eligible for purge from the system)

**Entity Name:** status

Category: Attribute

Object Class: ResourceChangeRequest

This attribute identifies the stage a proposed change has reached in its lifecycle.

**Entity Name:** status

Category: Attribute

Object Class: ResourceProfile

This attribute represents the code that identifies the stage to which a profiled resource has reached in its lifecycle.

**Entity Name:** StatusCode

Category: Attribute

Object Class: DmGwV0StatusMessage

V0 Status code

**Entity Name:** StatusMessage

Category: Attribute

Object Class: DmGwV0StatusMessage

Descriptive message what the status code means

**Entity Name:** StopDate

Category: Attribute

Object Class: DmGwDataCollection

It defines the ending date and time of the data collection temporal coverage.

**Entity Name:** str

Category: Attribute

Object Class: EcDnContext

Context name (a partial name of the distinguished name)

**Entity Name:** submissionDate

Category: Attribute

Object Class: ResourceChangeRequest

This attribute represents the date a proposed change was first registered.



**Entity Name:** submitter

Category: Attribute

Object Class: ResourceChangeRequest

This attribute is a name of the individual who registers a proposed change.

**Entity Name:** submitterEmail

Category: Attribute

Object Class: MsTtEntry

the e-mail address of the submitter

**Entity Name:** submitterID

Category: Attribute

Object Class: MsTtEntry

the id of the submitter of the trouble ticket

**Entity Name:** submitterImpact

Category: Attribute

Object Class: MsTtEntry

indicates the impact as seen by the submitter

**Entity Name:** submitterName

Category: Attribute

Object Class: MsTtEntry

the name of the submitter

**Entity Name:** submitterPhone

Category: Attribute

Object Class: MsTtEntry

the phone number of the submitter

**Entity Name:** SubscriptionSubmissionControl

Category: Attribute

Object Class: PlSubscriptionSubmitIF

**Entity Name:** t

Category: Attribute

Object Class: Pthread

Pthread no detach on delete, Pthread detach on delete, or Pthread join on delete

**Entity Name:** telephoneNo

Category: Attribute

Object Class: MsMdAggregateLogFile

The telephone number of the contact person

**Entity Name:** telNum

Category: Attribute

Object Class: MsAcGuestUserReq

This attribute represents the telephone number of the guest user.

**Entity Name:** telNum

Category: Attribute

Object Class: MsUsProfile

This attribute represents the telephone number of the user.

**Entity Name:** TemplateType

Category: Attribute

Object Class: InTemplateEditor

Indicates the template to which is to be edited.

**Entity Name:** testId

Category: Attribute

Object Class: MsFITest

This identifies the test to be executed.

**Entity Name:** text description

Category: Attribute

Object Class: ResourceProfile

This attribute represents the narrative that describes a profiled resource.

**Entity Name:** threshold

Category: Attribute

Object Class: MsPmEvent

This attribute specifies an integer representing the threshold level (severity) that has been exceeded.

**Entity Name:** time

Category: Attribute

Object Class: CmCrmCotsLog

This attribute represents the time at which an event occurred.

**Entity Name:** time

Category: Attribute

Object Class: CmScmCotsLog

This attribute represents the time at which an event occurred.

**Entity Name:** time

Category: Attribute

Object Class: DpPpAttitudePacket

The timestamp of the attitude.

**Entity Name:** time

Category: Attribute

Object Class: DpPpEphemerisRecord

The timestamp of the ephemeris.

**Entity Name:** time

Category: Attribute

Object Class: EcAgEvent

This attribute represents the time that the event is sent.

**Entity Name:** time

Category: Attribute

Object Class: MsTrap

his attribute specifies the time, in seconds, since a reference data in the past at the managed object when the trap was generated.

**Entity Name:** timeOut

Category: Attribute

Object Class: MsAgSubAgent

**Entity Name:** timeOutCb

Category: Attribute

Object Class: EcAgManager

This attribute contains the timeout value for the callback routine.

**Entity Name:** title

Category: Attribute

Object Class: BaselineManagementReport

This attribute represents the name of a report.

**Entity Name:** title

Category: Attribute

Object Class: DocumentProfile

This attribute represents the nomenclature that distinguishes document volumes from one another.

**Entity Name:** title

Category: Attribute

Object Class: ResourceChangeRequestReport

This attribute represents a name of a report.

**Entity Name:** title

Category: Attribute

Object Class: ResourceChangeRequest

This attribute is the nomenclature used to identify the proposed change.

**Entity Name:** title

Category: Attribute

Object Class: SoftwareChangeReport

This attribute represents the name of a report.

**Entity Name:** toolsUsed

Category: Attribute

Object Class: BuildRecord

This attribute represents the collection of information identifying the version of tools used in constructing a build.

**Entity Name:** totalFileCount

Category: Attribute

Object Class: MsMdAggregateLogFile

Total number of files to be archived

**Entity Name:** totalFileSize

Category: Attribute

Object Class: MsMdAggregateLogFile

Sum of file lengths in bytes

**Entity Name:** Tree

Category: Attribute

Object Class: CIdtHierarchical

A datastructure to represent the directory structure in a tree form.

**Entity Name:** tv\_nsec

Category: Attribute

Object Class: PthreadInterval

Additional nanoseconds since tv\_sec

**Entity Name:** tv\_nsec

Category: Attribute

Object Class: PthreadTime

Additional nanoseconds since tv\_sec

**Entity Name:** tv\_sec

Category: Attribute

Object Class: PthreadInterval

Number of seconds since 00:00:00 GMT, 1 January 1970

**Entity Name:** tv\_sec

Category: Attribute

Object Class: PthreadTime

Number of seconds since 00:00:00 GMT, 1 January 1970

**Entity Name:** type

Category: Attribute

Object Class: Association

This attribute represents the classification that distinguishes among groups of related library files on which operations can be performed collectively.

**Entity Name:** type

Category: Attribute

Object Class: BaselineProfile

This attribute represents the classification that distinguishes among baselines according to user-specifiable designations.

**Entity Name:** type

Category: Attribute

Object Class: EcAgEvent

This attribute represents the type of the event occurred.

**Entity Name:** type

Category: Attribute

Object Class: HardwareControlItem

This attribute represents the classification that distinguishes hardware components according to function.

**Entity Name:** type

Category: Attribute

Object Class: LibraryFile

This attribute represents the classification of a library file according to kind of contents.

**Entity Name:** type

Category: Attribute

Object Class: ResourceChangeRequest

This attribute is the classification that distinguishes among change requests according to form used.

**Entity Name:** type

Category: Attribute

Object Class: SoftwareControlItem

This attribute represents the classification that distinguishes among the type of information contained in a profiled, software component resource.

**Entity Name:** user

Category: Attribute

Object Class: AccessProfile

This attribute represents the UNIX logon identifier or group name to which a set of permissions can be assigned.

**Entity Name:** userId

Category: Attribute

Object Class: MsAcRegUser

This attribute represents a unique user identification.

**Entity Name:** userName

Category: Attribute

Object Class: EcAgEvent

This attribute represents the name of the user of the application.

**Entity Name:** V0Value

Category: Attribute

Object Class: DmGwMap

V0 term

**Entity Name:** value

Category: Attribute

Object Class: EcDnValue

Value name



**Entity Name:** varBindList

Category: Attribute

Object Class: MsTrap

This attribute specifies a list of the variable bindings sent with the trap.

**Entity Name:** vendor

Category: Attribute

Object Class: HardwareControlItem

This attribute represents the name of a hardware component's manufacturer.

**Entity Name:** version

Category: Attribute

Object Class: Association

This attribute represents the rev level of a group of related resources.

**Entity Name:** version

Category: Attribute

Object Class: BaselineProfile

This attribute represents the current revision to an established baseline.

**Entity Name:** version

Category: Attribute

Object Class: ResourceChangeRequest

This attribute is the current revision/amendment to a proposed change.

**Entity Name:** version

Category: Attribute

Object Class: ResourceProfile

This attribute represents the current revision to a profiled resource.

**Entity Name:** WestBoundingCoordinate

Category: Attribute

Object Class: DmGwBoundingCoordinates

Westernmost longitude of the data collection spatial coverage.

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# Abbreviations and Acronyms

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ACL	access control list
AI&T	algorithm integration and test
API	applications program interface
APID	application's process ID
APS	Acquisition Plan Schedules
ASCII	American Standard Code for Interchange
CCSDS	Consultative Committee for Space Data Systems
CD-ROM	compact disk - read only memory
CERES	Clouds and Earth's Radiant Energy System
CIO	contents identifier object
COTS	commercial off-the-shelf (hardware or software)
CPU	central processing unit
CSC	computer software component
CSCI	Communications System Configuration Item -- 214-001
CSDTs	computer science data types
CSMS	Communications and Systems Management Segment (ECS)
CSS	communication subsystem (CSMS)
DAA	data availability acknowledgment
DAAC	distributed active archive center
DAP	directory access protocol
DCE	distributed communication environment
DDN	data delivery notice
DNS	directory name service
DOF	distributed object framework
DPR	data processing request
DSS	data server subsystem
E-mail	electronic mail
EDOS	EOS Data and Operations System
EDU	EDOS Data Unit
EOS	Earth Observing System
EQ	equals
ESDT	Earth science data types

FDDI	fiber distributed data interface
FTP	file transfer protocol
GRIB	gridded binary
GS&O	ground systems and operations
GT	greater than
GUI	graphic user interface
GV	TRMM Ground Validation Data
GV	TRMM Ground Verification
HDF	hierarchical data format
HP	Hewlett Packard
HP	Hewlett-Packard Corporation
HPOV	Hewlett Packard Open View
HTML	Hyper-Text Markup Language
http	hypertext transport protocol
ICD	interface control document
ICMP	Internet control management protocol
IMS	information management subsystem
IP	Internet protocol
IPC	instrument processing center
LIS	Lightning Imaging Sensor
LT	less than
M&O	maintenance and operations
MCF	metadata configuration file
MDA	Management Data Process
MDUL	Missing Data Units List
MIB	management information base
MPR	Monthly Progress Review
MSS	management subsystem (CSMS)
NNM	Network Node Manager
NOAA	National Oceanic and Atmospheric Administration
OO	object oriented
OODCE	object oriented DCE
OS	operating system 12/94
OTS	off the shelf
PCF	process control file
PDF	publisher's display format

PDPS	planning and data processing system
PDS	production data set
PGE	product generation executive
PVL	parameter value language
QAC	Quality and Accounting Capsule
RDBMS	relational database management system
ROM	read only memory
RPC	remote procedure call
RTF	Rich Text Format
RWC	Rogue Wave Class
RW	Rogue Wave
SDPF	science data processing facility
SFDU	standard format data unit
SFDU	standard formatted data unit
SMC	System Management Center (ECS)
SNMP	simple network management protocol
SQL	Structured Query Language
SSM/I	Special Sensor for Microwave/Imaging
TBD	to be determined
TCP	transmission control protocol
TMI	TRMM Microwave Imager
TRMM	Tropical Rainfall Measuring Mission (joint US-Japan)
TSDIS	TRMM Science Data and Information System
UDP	user datagram protocol
UUID	universal unique identifier
VC	virtual channel
VIRS	Visible Infrared Scanner (TRMM)
WAN	wide area network
WWW	World Wide Web

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